

Engine Series:
100

Engine Model:
104-22 (KR,
KRC, KRG)

Engine Desc:
NATURALLY
ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in /
100.00 mm
Displacement:
135 in3 / 2.216
Lt
Compression
Ratio: 22:1

Please see
page **503** for a
complete list of
equipment
models.

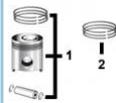


1) Engine O/H Kit

- › POK404 Std.
- › POK405 0.50

2) Basic Engine Kit

- › PBK404 Std.
- › PBK405 0.50
- › Spec Sheet - 400C Series



1) Piston & Ring Kit

- › P115017491 Std.
- › P115017491B 0.50

4 Per Engine

2) Ring Set

- › P115107970 Std.
- › P115107970B 0.50



Main Bearing Set

- › P198586140 Std.
- › P198586150 0.010
- › P198586160 0.020

Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0011 Std.
- › PU5ME0011A 0.010
- › PU5ME0011B 0.020

Set of 4 Pairs



1) Thrust Washer

- › P199266200/10

Set of 3 Pcs

2) Crank Bushing

- › P198517222 Std.
- › P198517226 0.010
- › P198517229 0.020



1) Front Seal

- › P198636160

2) Rear Seal

- › P050209083

3) Crankshaft

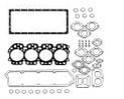
- › P115256990

4) Crankshaft Gear

- › PU15276270

5) Key, Crank Gear

- › P030509020



1) O/H Gasket Set

- › PU5LC0017

2) Cyl Head Gsk

- › P111147741

3) Seal Rocker Box

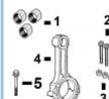
- › P120996130

4) Seal, Cyl HD Cov

- › P111996401

5) Oil Pan Gasket

- › P110996920



1) Bush, Con Rod

- › P198517265 x4

2) Bolt, Con Rod

- › P115176140 x8

3) Nut, Con Rod

- › P020109120 x8

4) Con Rod

- › P115026330

5) Head Bolt

- › P111136480 x14
- › P111136490 x4



1) Tappet

- › P120116160

2) Seal, Intk Valve

- › P120406070 x4

3) Seal, Exh Valve

- › P120406050 x4

Valve Train Kit

- › PVTK440

1) Valve, Intake

- › P120166350 x4

2) Valve, Exhaust

- › P120176360 x4

3) Spring, Valve

- › P198216700 x8

4) Retainer, Valve Spring

- › P120186080 x8

5) Lock, Valve

- › P120226070 x16



1) Oil Pump

- › PU5MK8266

2) Oil Cooler

- › P2486A218



1) Lift Pump

- › P130506351

2) Thermostat

- › P145206182

3) Atomiser

- › P131406490

4) Pre-Fuel Filter Assy

- › P130306380

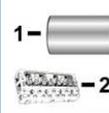


1) Water Pump

- › P145017951

2) Gasket, W Pump

- › P145996921



1) Repair Sleeve

- › 84RS

2) Cylinder Head

- › P111017420UF



1) Glowplug

- › P185366190

2) Oil Pressure Switch

- › P185246060

3) Temp Sensor

- › P385720101

4) Water Temp Sensor

- › P385720230

(1): Does not include Crankshaft Oil Seals.

(2): "KR" build ONLY.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the keyway P/N P030509020, must be used.

(4): Check for proper application.

(5): Not included in valve train kit.

Engine Series:
400

Engine Model:
403C-15
(HL,HLC,HLG)

Engine Desc:
NATURALLY
ASPIRATED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.5 in /
90.00 mm
Displacement:
91 in3 / 1.496
Lt
Compression
Ratio: 22.5:1

Please see
page **504** for a
complete list of
equipment
models.

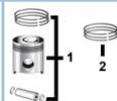


1) Engine O/H Kit

- POK316 Std. 5
- POK317 0.50 5

2) Basic Engine Kit

- PBK316 Std.
- PBK317 0.50
- Spec Sheet - 400C Series



1) Piston & Ring Kit

- P115017541 Std.
- P115017541B 0.50

3 Per Engine

2) Ring Set

- P115107970 Std.
- P115107970B 0.50



Main Bearing Set

- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs



Con Rod Bearing Set

- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs



1) Thrust Washer

- P199266200 x2
- 2) Crank Bushing**
- P198517222 Std.
 - P198517226 0.010
 - P198517229 0.020



1) Front Seal

- P198636160

2) Rear Seal

- P198636170

3) Crankshaft

- P115256950 6

4) Crankshaft Gear

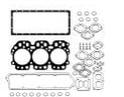
- PU15276270

5) Key, Crank Gear

- P030509020

6) Flywheel Ring Gear

- P115376040 109T
- PU15376160 126T



1) O/H Gasket Set

- PU5LC0018

2) Cyl Head Gsk

- P111147501

3) Seal Rocker Box

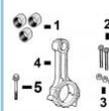
- P120996140

4) Seal, Cyl HD Cov

- P111996410

5) Oil Pan Gasket

- P110996910



1) Bush, Con Rod

- P198517265 x3

2) Bolt, Con Rod

- P115176140 x6

3) Nut, Con Rod

- P020109120 x6

4) Connecting Rod

- P115026251

5) Head Bolt

- P111136480 x11
- P111136490 x3



1) Tappet

- P120116160

2) Seal, Intk Valve

- P120406070 x3

3) Seal, Exh Valve

- P120406050 x3

Valve Train Kit

- PVTK308

1) Valve, Intake

- P120166350 x3

2) Valve, Exhaust

- P120176360 x3

3) Spring, Valve

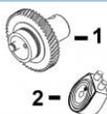
- P198217470 x6

4) Retainer, Valve Spring

- P120186080 x6 4

5) Lock, Valve

- P120226070 x12



1) Oil Pump

- PU5MK8266

2) Oil Cooler

- P2486A218



1) Lift Pump

- P130506351

2) Thermostat

- P145206182

3) Atomiser

- P131406490 1

4) Pre-Fuel Filter Assy

- P130306380

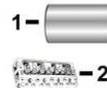


1) Water Pump

- P145017951 3

2) Gasket, W Pump

- P145996921

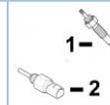


1) Repair Sleeve

- 84RS

2) Cylinder Head

- P111018050UF



1) Glowplug

- P185366190 2

2) Water Temp Sensor

- P385720500 3

- PW85720580 3

(1): Use with HL and HLC Builds.

(3): Check for proper application.

(5): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

(2): Use with HL Build.

(4): Not included in valve train kit.

(6): Not compatible with engines that have a crank driven balancer unit.

Engine Series: 400	Engine Model: 403C-17 (HM) 403D-17 (GS)	Engine Data: NATURALLY ASPIRATED	Engine Info: 3 Cyl	Engine Dimensions: Bore: 3.3 in / 84.00 mm Stroke: 3.9 in / 100.00 mm Displacement: 101.4 in ³ / 1.662 Lt Compression Ratio: 22.5:1
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Case-IH-Farm Tractors

D35
DX35

DX34

New Holland-Farm Tractors

BOOMER 2035
T2220
TC35
TC35D

T1520
TC34DA
TC35A
TC35DA

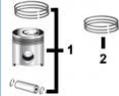


1) Engine O/H Kit

- POK318 Std.
- POK319 0.50

2) Basic Engine Kit

- PBK318 Std.
- PBK319 0.50
- Spec Sheet - 400C Series



1) Piston & Ring Kit

- P115017491 Std.
- P115017491B 0.50

3 Per Engine

2) Ring Set

- P115107970 Std.
- P115107970B 0.50



Main Bearing Set

- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs



Con Rod Bearing Set

- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs



1) Thrust Washer

- P199266200 x2

2) Crank Bushing

- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



1) Front Seal

- P198636160

2) Rear Seal

- P050209083

3) Crankshaft Gear

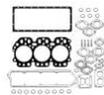
- PU15276270

4) Key, Crank Gear

- P030509020

5) Flywheel Ring Gear

- P115376040 109T
- PU15376160 126T



1) O/H Gasket Set

- PU5LC0018

2) Cyl Head Gsk

- P111147501

3) Seal Rocker Box

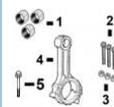
- P120996140

4) Seal, Cyl HD Cov

- P111996410

5) Oil Pan Gasket

- P110996910



1) Bush, Con Rod

- P198517265 x3

2) Bolt, Con Rod

- P115176140 x6

3) Nut, Con Rod

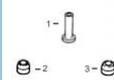
- P020109120 x6

4) Connecting Rod

- P115026330

5) Head Bolt

- P111136480 x11
- P111136490 x3



1) Tappet

- P120116160

2) Seal, Intk Valve

- P120406070 x3

3) Seal, Exh Valve

- P120406050 x3

Valve Train Kit

- PVTK309

1) Valve, Intake

- P120166350 x3

2) Valve, Exhaust

- P120176360 x3

3) Spring, Valve

- P198216700 x6

4) Retainer, Valve Spring

- P120186080 x6

4) Lock, Valve

- P120226070 x12



1) Oil Pump

- PU5MK8266
- PU5MK8267

2) Oil Cooler

- P2486A218



1) Lift Pump

- P130506351

2) Thermostat

- P145206182
- P145206230

3) Atomiser

- P131406490



1) Water Pump

- P145017951
- PU45010062

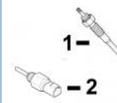
2) Gasket, W Pump

- P145996921



Repair Sleeve

- 84RS



1) Glowplug

- P185366190

2) Water Temp Sensor

- PW85720580

(1): Use with GS Build, 403D-17 Engine.

(2): Check for proper application.

(3): Depending on the serial number or production date, the TC35, TC35D, D35 & DX35 may require additional manifold gaskets not offered in PU5LC0018.

(4): If 2 bolt auxiliary drive timing cover gasket is needed, also sell P165996630, with the gasket set PU5LC0018.

Engine Series:

400

Engine Model:

403A-15 (GU)
403D-15 (GK)

Engine Data:

NATURALLY
ASPIRATED

Engine Info:

3 Cyl

Engine

Dimensions:

Bore: 3.3 in /
84.00 mm
Stroke: 3.54 in
/ 90.00 mm
Displacement:
91.5 in³ /1.5 Lt
Compression
Ratio: 22.5:1

Please see
page **505** for a
complete list of
equipment
models.

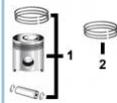


1) Engine O/H Kit

- POK349 Std. 4
- POK350 0.50 4

2) Basic Engine Kit

- PBK349 Std.
- PBK350 0.50
- Spec Sheet - 400D Series



1) Piston & Ring Kit

- P115017541 Std.
- P115017541B 0.50

3 Per Engine

2) Ring Set

- P115107970 Std.
- P115107970B 0.50



Main Bearing Set

- P198586050 Std.
- P198586054 0.010
- P198586057 0.020

Set of 3 Pairs



Con Rod Bearing Set

- P198586080 Std.
- P198586084 0.010
- P198586087 0.020

Set of 3 Pairs



1) Thrust Washer

- P199266200 x2
- 2) Crank Bushing**
- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



1) Front Seal

- P198636160

2) Rear Seal

- P198636170

3) Crankshaft

- P115256950 4

4) Crankshaft Gear

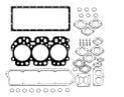
- PU15276270

5) Key, Crank Gear

- P030509020

6) Flywheel Ring Gear

- P115376040 109T
- PU15376160 126T



1) O/H Gasket Set

- PU5LC0018 3

2) Cyl Head Gsk

- P111147501

3) Seal Rocker Box

- P120996140 4

4) Seal, Cyl HD Cov

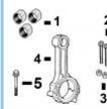
- P111996410

5) Timing Cover Gsk

- P165996630

6) Oil Pan Gasket

- P110996910



1) Bush, Con Rod

- P198517265 x3

2) Bolt, Con Rod

- P115176140 x6

3) Nut, Con Rod

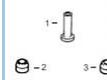
- P020109120 x6

4) Connecting Rod

- P115026251

5) Head Bolt

- P111136480 x11
- P111136490 x3



1) Tappet

- P120116160

2) Seal, Intk Valve

- P120406070 x3

3) Seal, Exh Valve

- P120406050 x3

Valve Train Kit

- PVTK309

1) Valve, Intake

- P120166350 x3

2) Valve, Exhaust

- P120176360 x3

3) Spring, Valve

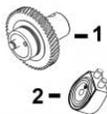
- P198216700 x6

4) Retainer, Valve Spring

- P120186080 x6

5) Lock, Valve

- P120226070 x12



1) Oil Pump

- PU5MK8267

2) Oil Cooler

- P2486A218



1) Lift Pump

- P130506351

2) Thermostat

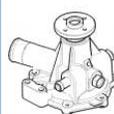
- P145206230

3) Injector

- P131406490 1

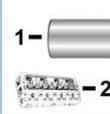
4) Pre-Fuel Filter Assy

- P130306380



Water Pump

- PU45010062

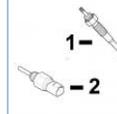


1) Repair Sleeve

- 84RS

2) Cylinder Head

- P111011050UF



1) Glowplug

- P185366190

2) Water Temp Sensor

- P385720500 2

- PW85720580 2

(1): Use with GK Build, 403D-15 Engine.

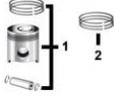
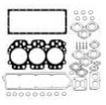
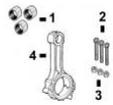
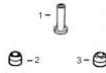
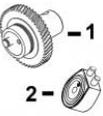
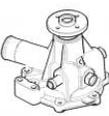
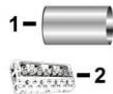
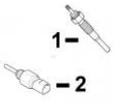
(2): Check for proper application.

(3): If 2 bolt auxiliary drive timing cover gasket is needed, also sell (4): Not compatible with engines that have a crank driven balancer unit.

Engine Series: 400	Engine Model: 403D-15T (GL)	Engine Desc: TURBOCHARGED	Engine Info: 3 Cyl	Engine Dimensions: Bore: 3.3 in / 84.00 mm Stroke: 3.54 in / 90.00 mm Displacement: 91.5 in3 / 1.5 Lt Compression Ratio: 22.5:1
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Takeuchi

TW40 - Comp Wheel Loader

 <p>1) Engine O/H Kit , POK351 Std. , POK352 0.50 2) Basic Engine Kit , PBK351 Std. , PBK352 0.50 , Spec Sheet - 400D Series</p>	 <p>1) Piston & Ring Kit , P115017581 Std. , P115017581B 0.50 3 Per Engine 2) Ring Set , P115104021 Std. , P115104021B 0.50</p>	 <p>Main Bearing Set , P198586050 Std. , P198586054 0.010 , P198586057 0.020 Set of 3 Pairs</p>	 <p>Con Rod Bearing Set , P198586080 Std. , P198586084 0.010 , P198586087 0.020 Set of 3 Pairs</p>	 <p>1) Thrust Washer , P199266200 x2 2) Crank Bushing , P198517222 Std. , P198517226 0.010 , P198517229 0.020</p>
 <p>1) Front Seal , P198636160 2) Rear Seal , P198636170 3) Crankshaft , P115256950 4) Crankshaft Gear , PU15276270 5) Key, Crank Gear , P030509020</p>	 <p>1) O/H Gasket Set , PU5LC0018 2) Cyl Head Gsk , P111147501 3) Seal Rocker Box , P120996140 4) Seal, Cyl HD Cov , P111996410 5) Timing Cover Gsk , P165996630 6) Oil Pan Gasket , P110996910</p>	 <p>1) Bush, Con Rod , P198517265 x3 2) Bolt, Con Rod , P115176140 x6 3) Nut, Con Rod , P020109120 x6 4) Con Rod , P115026251</p>	 <p>1) Tappet , P120116160 2) Seal, Intk Valve , P120406070 x3 3) Seal, Exh Valve , P120406050 x3</p>	
<p>Valve Train Kit , PVTK309</p>	<p>1) Valve, Intake , P120166350 x3 2) Valve, Exhaust , P120176360 x3</p>	<p>3) Spring, Valve , P198216700 x6 4) Retainer, Valve Spring , P120186080 x6</p>	<p>5) Lock, Valve , P120226070 x12</p>	
 <p>1) Oil Pump , PU5MK8267 2) Oil Cooler , P2486A218</p>	 <p>1) Lift Pump , P130506351 2) Thermostat , P145206230 3) Atomiser , P131406490</p>	 <p>Water Pump , PU45010062</p>	 <p>1) Repair Sleeve , 84RS 2) Cylinder Head , P111011050UF</p>	 <p>1) Glowplug , P185366190 2) Water Temp Sensor , PW85720580</p>

(1): Check for proper application.

(2): Not compatible with engines that have a crank driven balancer unit.

Engine Series:
400

Engine Model:
404C-22
(HP,HPC,HPG)

Engine Desc:
NATURALLY
ASPIRATED

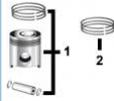
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in /
100.00 mm
Displacement:
135 in3 / 2.216
Lt
Compression
Ratio: 23.3:1

Please see
page 506 for a
complete list of
equipment
models.



- 1) **Engine O/H Kit**
 › POK404 Std.
 › POK405 0.50
 2) **Basic Engine Kit**
 › PBK404 Std.
 › PBK405 0.50
 › Spec Sheet - 400C Series



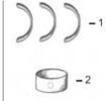
- 1) **Piston & Ring Kit**
 › P115017491 Std.
 › P115017491B 0.50
 4 Per Engine
 2) **Ring Set**
 › P115107970 Std.
 › P115107970B 0.50



- Main Bearing Set**
 › P198586140 Std.
 › P198586150 0.010
 › P198586160 0.020
 Set of 4 Pairs



- Con Rod Bearing Set**
 › PU5ME0011 Std.
 › PU5ME0011A 0.010
 › PU5ME0011B 0.020
 Set of 4 Pairs

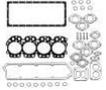


- 1) **Thrust Washer**
 › P199266200/10
 Set of 3 Pcs
 2) **Crank Bushing**
 › P198517222 Std.
 › P198517226 0.010
 › P198517229 0.020

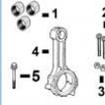


- 1) **Front Seal**
 › P198636160
 2) **Rear Seal**
 › P050209083

- 3) **Crankshaft**
 › P115256990
 4) **Crankshaft Gear**
 › PU15276270
 5) **Key, Crank Gear**
 › P030509020
 6) **Flywheel Ring Gear**
 › P115376040 109T
 › PU15376160 126T



- 1) **O/H Gasket Set**
 › PU5LC0017
 2) **Cyl Head Gsk**
 › P111147741
 3) **Seal Rocker Box**
 › P120996130
 4) **Seal, Cyl HD Cov**
 › P111996401
 5) **Oil Pan Gasket**
 › P110996920



- 1) **Bush, Con Rod**
 › P198517265 x4
 2) **Bolt, Con Rod**
 › P115176140 x8
 3) **Nut, Con Rod**
 › P020109120 x8
 4) **Connecting Rod**
 › P115026330
 5) **Head Bolt**
 › P111136480 x14
 › P111136490 x4



- 1) **Tappet**
 › P120116160
 2) **Seal, Intk Valve**
 › P120406070 x4
 3) **Seal, Exh Valve**
 › P120406050 x4

- Valve Train Kit**
 › PVTK440

- 1) **Valve, Intake**
 › P120166350 x4
 2) **Valve, Exhaust**
 › P120176360 x4

- 3) **Spring, Valve**
 › P198216700 x8
 4) **Retainer, Valve Spring**
 › P120186080 x8

- 5) **Lock, Valve**
 › P120226070 x16



- 1) **Oil Pump**
 › PU5MK8266
 2) **Oil Cooler**
 › P2486A218



- 1) **Lift Pump**
 › P130506351
 2) **Thermostat**
 › P145206182
 3) **Atomiser**
 › P131406490
 4) **Pre-Fuel Filter Assy**
 › P130306380



- 1) **Water Pump**
 › P145017951
 2) **Gasket, W Pump**
 › P145996921



- Repair Sleeve**
 › 84RS



- 1) **Glowplug**
 › P185366190
 2) **Oil Pressure Switch**
 › P185246280
 3) **Water Temp Sensor**
 › P385720500
 › PW85720580
 4) **Cylinder Head**
 › P111017930UF



- Fuel Lines**
 › 1) P131507700
 › 2) P131507710
 › 3) P131507720
 › 4) P131507730

(1): Does not include Crankshaft Oil Seals.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the keyway P/N P030509020, must be used.

(5): Check for proper application.

(2): Use with HP Builds.

(4): Use with HP and HPC Builds.

(6): Bare head. Check application for proper usage.

Engine Series:
400

Engine Model:
404C-22T
(HR, HRC)

Engine Desc:
TURBOCHARGE

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 135 in3 / 2.216 Lt
Compression Ratio: 23.3:1

Please see page 507 for a complete list of equipment models.

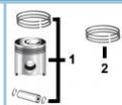


1) Engine O/H Kit

- › POK406 Std.
- › POK407 0.50

2) Basic Engine Kit

- › PBK406 Std.
- › PBK407 0.50
- › Spec Sheet - 400C Series



1) Piston & Ring Kit

- › P115017581 Std.
- › P115017581B 0.50

4 Per Engine

- 2) Ring Set**
- › P115104021 Std.
 - › P115104021B 0.50



Main Bearing Set

- › P198586140 Std.
- › P198586150 0.010
- › P198586160 0.020

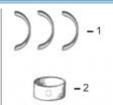
Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0011 Std.
- › PU5ME0011A 0.010
- › PU5ME0011B 0.020

Set of 4 Pairs



1) Thrust Washer

- › P199266200/10

Set of 3 Pcs

- 2) Crank Bushing**
- › P198517222 Std.
 - › P198517226 0.010
 - › P198517229 0.020



1) Front Seal

- › P198636160

2) Rear Seal

- › P050209083

3) Crankshaft

- › P115256990

4) Crankshaft Gear

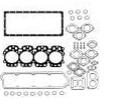
- › PU15276270

5) Key, Crank Gear

- › P030509020

6) Flywheel Ring Gear

- › P115376040 109T
- › PU15376160 126T



1) O/H Gasket Set

- › P404TOG

2) Cyl Head Gsk

- › P111147741

3) Seal Rocker Box

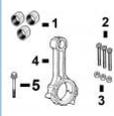
- › P120996130

4) Seal, Cyl HD Cov

- › P111996401

5) Oil Pan Gasket

- › P110996920



1) Bush, Con Rod

- › P198517265 x4

2) Bolt, Con Rod

- › P115176140 x8

3) Nut, Con Rod

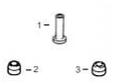
- › P020109120 x8

4) Connecting Rod

- › P115026330

5) Head Bolt

- › P111136480 x14
- › P111136490 x4



1) Tappet

- › P120116160

2) Seal, Intk Valve

- › P120406070 x4

3) Seal, Exh Valve

- › P120406050 x4

Valve Train Kit

- › PVTK440

1) Valve, Intake

- › P120166350 x4

2) Valve, Exhaust

- › P120176360 x4

3) Spring, Valve

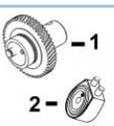
- › P198216700 x8

4) Retainer, Valve Spring

- › P120186080 x8

5) Lock, Valve

- › P120226070 x16



1) Oil Pump

- › PU5MK8266

2) Oil Cooler

- › P2486A218



1) Lift Pump

- › P130506351

2) Thermostat

- › P145206182

3) Atomiser

- › P131406490

4) Pre-Fuel Filter Assy

- › P130306380

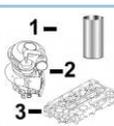


1) Water Pump

- › P145017951

2) Gasket, W Pump

- › P145996921



1) Repair Sleeve

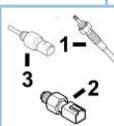
- › 84RS

2) Turbocharger

- › P135756180

3) Cylinder Head

- › PTPN488UF



1) Glowplug

- › P185366190

2) Oil Pressure Switch

- › P185246280

3) Water Temp Sensor

- › PW85720580



Fuel Lines

- › 1) P131507700
- › 2) P131507710
- › 3) P131507720
- › 4) P131507730

(1): Does not include Crankshaft Oil Seals.

(2): Use with HR Build.

(3): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(4): Check for proper application.

(5): Not included in valve train kit.

Engine Series:
400

Engine Model:
404A-22 (GV)
404D-22 (GN)

Engine Desc:

Engine Data:
NATURALLY
ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 3.3 in / 84.00 mm
Stroke: 3.9 in / 100.00 mm
Displacement: 134.25 in³ / 2.2 Lt
Compression Ratio: 23.3:1

Please see page 508 for a complete list of equipment models.

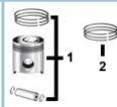


1) Engine O/H Kit

- › POK464 Std.
- › POK465 0.50

2) Basic Engine Kit

- › PBK464 Std.
- › PBK465 0.50
- › Spec Sheet - 400D Series



1) Piston & Ring Kit

- › P115017491 Std.
- › P115017491B 0.50

4 Per Engine

2) Ring Set

- › P115107970 Std.
- › P115107970B 0.50



Main Bearing Set

- › P198586140 Std.
- › P198586150 0.010
- › P198586160 0.020

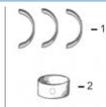
Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0011 Std.
- › PU5ME0011A 0.010
- › PU5ME0011B 0.020

Set of 4 Pairs



1) Thrust Washer

- › P199266200/10

Set of 3 Pcs

2) Crank Bushing

- › P198517222 Std.
- › P198517226 0.010
- › P198517229 0.020



1) Front Seal

- › P198636160

2) Rear Seal

- › P050209083

3) Crankshaft

- › P115256990

4) Crankshaft Gear

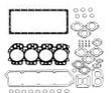
- › PU15276270

5) Key, Crank Gear

- › P030509020

6) Flywheel Ring Gear

- › P115376040 109T
- › PU15376160 126T



1) O/H Gasket Set

- › P404D TOG

2) Cyl Head Gsk

- › P111147771

3) Seal Rocker Box

- › P120996130

4) Seal, Cyl HD Cov

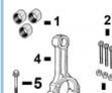
- › P111996401

5) Timing Cover Gasket

- › P165996630
- › P165996600
- › P165996590

6) Oil Pan Gasket

- › P110996920



1) Bush, Con Rod

- › P198517265 x4

2) Bolt, Con Rod

- › P115176140 x8

3) Nut, Con Rod

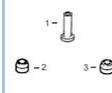
- › P020109120 x8

4) Connecting Rod

- › P115026330

5) Head Bolt

- › P111136480 x14
- › P111136490 x4



1) Tappet

- › P120116160

2) Seal, Intake Valve

- › P120406070 x4

3) Seal, Exhaust Valve

- › P120406050 x4

Valve Train Kit

- › PVTK440

1) Valve, Intake

- › P120166350 x4

2) Valve, Exhaust

- › P120176360 x4

3) Spring, Valve

- › P198216700 x8

4) Retainer, Valve Spring

- › P120186080 x8

5) Lock, Valve

- › P120226070 x16



1) Oil Pump

- › PU5MK8267

2) Oil Cooler

- › P2486A218



1) Lift Pump

- › P130506351

2) Thermostat

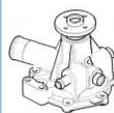
- › P145206230

3) Atomiser

- › P131406490

4) Pre-Fuel Filter Assy

- › P130306380



Water Pump

- › PU45010062

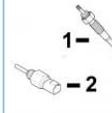


1) Repair Sleeve

- › 84RS

2) Cylinder Head

- › P111011030UF



1) Glowplug

- › P185366190

2) Water Temp Sensor

- › P385720500
- › PW85720580



Fuel Lines

- › 1) P131507700
- › 2) P131507710
- › 3) P131507720
- › 4) P131507730

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Use with GN Build, 404D-22 Engine.

(4): Check for proper application.

(5): Not included in valve train kit.

(6): Included in P404D TOG.

PERKINS 404D-22T (GP)

Engine Series:

400

Engine Model:

404D-22T
(GP)

Engine Desc:

TURBOCHARGED

Engine Info:

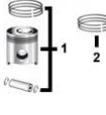
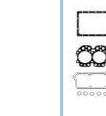
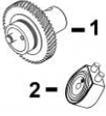
4 Cyl

Engine

Dimensions:

Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in
/ 100.00 mm
Displacement:
134.25 in³ / 2.2
Lt
Compression
Ratio: 23.3:1

Please see
page **509** for a
complete list of
equipment
models.

 <p>1) Engine O/H Kit › POK466 Std. › POK467 0.50</p> <p>2) Basic Engine Kit › PBK466 Std. › PBK467 0.50 › Spec Sheet - 400D Series</p>	 <p>1) Piston & Ring Kit › P115017581 Std. › P115017581B 0.50</p> <p>4 Per Engine</p> <p>2) Ring Set › P115104021 Std. › P115104021B 0.50</p>	 <p>Main Bearing Set › P198586140 Std. › P198586150 0.010 › P198586160 0.020</p> <p>Set of 4 Pairs</p>	 <p>Con Rod Bearing Set › PU5ME0011 Std. › PU5ME0011A 0.010 › PU5ME0011B 0.020</p> <p>Set of 4 Pairs</p>	 <p>1) Thrust Washer › P199266200/10</p> <p>Set of 3 Pcs</p> <p>2) Crank Bushing › P198517222 Std. › P198517226 0.010 › P198517229 0.020</p>	
 <p>1) Front Seal › P198636160</p> <p>2) Rear Seal › P050209083</p>	 <p>1) O/H Gasket Set › P404DTOG</p> <p>2) Cyl Head Gsk › P111147771</p> <p>3) Seal Rocker Box › P120996130</p> <p>4) Seal, Cyl HD Cov › P111996401</p> <p>5) Timing Cover Gasket › P165996630 › P165996600 › P165996590</p> <p>6) Oil Pan Gasket › P110996920</p>	 <p>1) Bush, Con Rod › P198517265 x4</p> <p>2) Bolt, Con Rod › P115176140 x8</p> <p>3) Nut, Con Rod › P020109120 x8</p> <p>4) Connecting Rod › P115026330</p> <p>5) Head Bolt › P111136480 x14 › P111136490 x4</p>	 <p>1) Tappet › P120116160</p> <p>2) Seal, Intk Valve › P120406070 x4</p> <p>3) Seal, Exh Valve › P120406050 x4</p>		
<p>Valve Train Kit › PVTK440</p>	<p>1) Valve, Intake › P120166350</p> <p>2) Valve, Exhaust › P120176360 x4</p>	<p>3) Spring, Valve › P198216700 x8</p> <p>4) Retainer, Valve Spring › P120186080 x8</p>	<p>5) Lock, Valve › P120226070 x16</p>		
 <p>1) Oil Pump › PU5MK8267</p> <p>2) Oil Cooler › P2486A218</p>	 <p>1) Lift Pump › P130506351</p> <p>2) Thermostat › P145206230</p> <p>3) Atomiser › P131406490</p> <p>4) Pre-Fuel Filter Assy › P130306380</p>	 <p>Water Pump › PU45010062</p>	 <p>Repair Sleeve › 84RS</p>	 <p>1) Glowplug › P185366190</p> <p>2) Water Temp Sensor › P385720500 › PW85720580</p> <p>3) Cylinder Head › P111011090UF</p>	 <p>Turbocharger › P135756180</p>

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Check for proper application.

(4): Not included in valve train kit.

(5): Included in P404DTOG.

PERKINS 404D-22TA (GR)

Engine Series:

400

Engine Model:

404D-22TA
(GR)

Engine Desc:

TURBOCHARGED
AFTERCOOLED

Engine Info:

4 Cyl

Engine

Dimensions:

Bore: 3.3 in /
84.00 mm
Stroke: 3.9 in
/ 100.00 mm
Displacement:
134.25 in3 /
2.2 Lt
Compression
Ratio: 23.3:1

Please see
page **510** for a
complete list of
equipment
models.

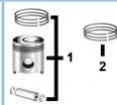


1) Engine O/H Kit

- POK468 Std.
- POK469 0.50

2) Basic Engine Kit

- PBK468 Std.
- PBK469 0.50
- Spec Sheet - 400D Series



1) Piston & Ring Kit

- P115017581 Std.
- P115017581B 0.50

4 Per Engine

2) Ring Set

- P115104021 Std.
- P115104021B 0.50



Main Bearing Set

- P198586140 Std.
- P198586150 0.010
- P198586160 0.020

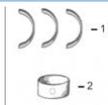
Set of 4 Pairs



Con Rod Bearing Set

- PU5ME0011 Std.
- PU5ME0011A 0.010
- PU5ME0011B 0.020

Set of 4 Pairs



1) Thrust Washer

- P199266200/10

Set of 3 Pcs

2) Crank Bushing

- P198517222 Std.
- P198517226 0.010
- P198517229 0.020



1) Front Seal

- P198636160

2) Rear Seal

- P050209083

3) Crankshaft

- P115256990

4) Crankshaft Gear

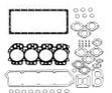
- PU15276270

5) Key, Crank Gear

- P030509020

6) Flywheel Ring Gear

- P115376040 109T
- PU15376160 126T



1) O/H Gasket Set

- P404D TOG

2) Cyl Head Gsk

- P111147771

3) Seal Rocker Box

- P120996130

4) Seal, Cyl HD Cov

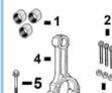
- P111996401

5) Timing Cover Gsk

- P165996630
- P165996600
- P165996590

6) Oil Pan Gasket

- P110996920



1) Bush, Con Rod

- P198517265 x4

2) Bolt, Con Rod

- P115176140 x8

3) Nut, Con Rod

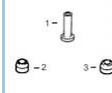
- P020109120 x8

4) Connecting Rod

- P115026330

5) Head Bolt

- P111136480 x14
- P111136490 x4



1) Tappet

- P120116160

2) Seal, Intk Valve

- P120406070 x4

3) Seal, Exh Valve

- P120406050 x4

Valve Train Kit

- PVTK440

1) Valve, Intake

- P120166350 x4

2) Valve, Exhaust

- P120176360 x4

3) Spring, Valve

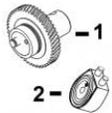
- P198216700 x8

4) Retainer, Valve Spring

- P120186080 x8

5) Lock, Valve

- P120226070 x16



1) Oil Pump

- PU5MK8267

2) Oil Cooler

- P2486A218



1) Lift Pump

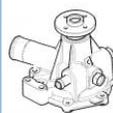
- P130506351

2) Thermostat

- P145206230

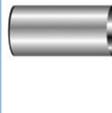
3) Pre-Fuel Filter Assy

- P130306380



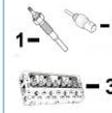
Water Pump

- PU45010062



Repair Sleeve

- 84RS



1) Glowplug

- P185366190

2) Water Temp Sensor

- PW85720580

3) Cylinder Head

- P111011090UF



Fuel Lines

- 1) P131507700

- 2) P131507710

- 3) P131507720

- 4) P131507730

(1): Does not include Crankshaft Oil Seals.

(2): Do not use in applications that require a Crankshaft Driven Balancer Unit. The new style front gear is P/N U15276270, (.887" or 22.5mm Wide) and the key way P/N P030509020, must be used.

(3): Check for proper application.

(4): Not included in valve train kit.

(5): Included in P404D TOG.

Engine Series:
400

Engine Model:
404F-22 (EN)

Engine Desc:
Naturally Aspirated

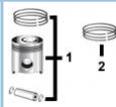
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.3 in / 84mm
Stroke: 3.9 in / 100mm
Displacement: in3 / 2.2 Lt
Compression Ratio: 23.3:1

Please see page 511 for a complete list of equipment models.



- 1) **Engine O/H Kit**
 - › POK520 Std.
 - › POK521 0.50
- 2) **Basic Engine Kit**
 - › PBK520 Std.
 - › PBK521 0.50
 - › SPEC SHEET - 404F



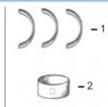
- 1) **Piston & Ring Kit**
 - › P115017790 Std.
 - › P115017790B 0.50
- 4 Per Engine



- Main Bearing Set**
 - › P198586140 Std.
 - › P198586150 0.010
 - › P198586160 0.020
- Set of 4 Pairs



- Con Rod Bearing Set**
 - › PU5ME0011 Std.
 - › PU5ME0011A 0.010
 - › PU5ME0011B 0.020
- Set of 4 Pairs



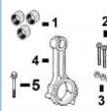
- 1) **Thrust Washer**
 - › P199266200/10
- Set of 3 Pcs
- 2) **Crank Bushing**
 - › P198517222 Std.
 - › P198517226 0.010
 - › P198517229 0.020



- 1) **Front Seal**
 - › P198636160
- 2) **Rear Seal**
 - › P050209083
- 3) **Crankshaft**
 - › P115256990
- 4) **Crankshaft Gear**
 - › PU15276270
- 5) **Key, Crank Gear**
 - › P030509020



- 1) **O/H Gasket Set**
 - › P404DTOG
- 2) **Cyl Head Gsk**
 - › P111147771
- 3) **Seal Rocker Box**
 - › P120996130
- 4) **Seal, Cyl HD Cov**
 - › P111996401
- 5) **Timing Cover Gasket**
 - › P165996630
 - › P165996600
 - › P165996590
- 6) **Oil Pan Gasket**
 - › P110996920



- 1) **Bush, Con Rod**
 - › P198517265 x4
- 2) **Bolt, Con Rod**
 - › P115176140 x8
- 3) **Nut, Con Rod**
 - › P020109120 x8
- 4) **Con Rod**
 - › P115026330



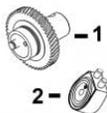
- 1) **Tappet**
 - › P120116160
- 2) **Seal, Intk Valve**
 - › P120406070 x4
- 3) **Seal, Exh Valve**
 - › P120406050 x4

- Valve Train Kit**
 - › PVTK440

- 1) **Valve, Intake**
 - › P120166350 x4
- 2) **Valve, Exhaust**
 - › P120176360 x4

- 3) **Spring, Valve**
 - › P198216700 x8
- 4) **Retainer, Valve Spring**
 - › P120186080 x8

- 5) **Lock, Valve**
 - › P120226070 x16



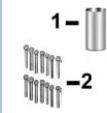
- 1) **Oil Pump**
 - › PU5MK8267
- 2) **Oil Cooler**
 - › P2486A218



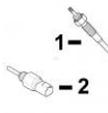
- 1) **Lift Pump**
 - ›
- 2) **Thermostat**
 - › P145206230
- 3) **Atomiser**
 - › P131406490
- 4) **Pre-Fuel Filter Assy**
 - › P130306380



- Water Pump**
 - › PU45010062



- 1) **Repair Sleeve**
 - › 84RS
- 2) **Head Bolts**
 - › P111136480 x14
 - › P111136490 x4



- 1) **Glowplug**
 - › P185366190
- 2) **Water Temp Sensor**
 - › PW85720580

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(3): Check application for proper usage.

(5): Included in P404DTOG.

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(4): Under development, not included in Valve Train Kit.

PERKINS 404F-22T (EP)

Engine Series:

400

Engine Model:

404F-22T
(EP)

Engine Desc:

Turbocharged

Engine Info:

4 Cyl

Engine

Dimensions:

Bore: 3.3in /
84mm Stroke:
3.9in / 100mm
Displacement:
in3 / 2.2 Lt
Compression
Ratio: 23.5:1

Please see
page 512 for a
complete list of
equipment
models.

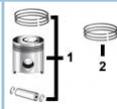


1) Engine O/H Kit

- › POK522 Std.
- › POK523 0.50

2) Basic Engine Kit

- › PBK522 Std.
- › PBK523 0.50
- › SPEC SHEET - 404F



1) Piston & Ring Kit

- › P115017800 Std.
- › P115017800B 0.50

4 Per Engine



Main Bearing Set

- › P198586140 Std.
- › P198586150 0.010
- › P198586160 0.020

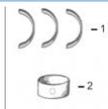
Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0011 Std.
- › PU5ME0011A 0.010
- › PU5ME0011B 0.020

Set of 4 Pairs



1) Thrust Washer

- › P199266200/10

Set of 3 Pcs

- 2) Crank Bushing**
- › P198517222 Std.
- › P198517226 0.010
- › P198517229 0.020



1) Front Seal

- › P198636160

2) Rear Seal

- › P050209083

3) Crankshaft

- › P115256990

4) Crankshaft Gear

- › PU15276270

5) Key, Crank Gear

- › P030509020



1) O/H Gasket Set

- › P404DTOG

2) Cyl Head Gsk

- › P111147771

3) Seal Rocker Box

- › P120996130

4) Seal, Cyl HD Cov

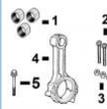
- › P111996401

5) Timing Cover Gasket

- › P165996630
- › P165996600
- › P165996590

6) Oil Pan Gasket

- › P110996920



1) Bush, Con Rod

- › P198517265 x4

2) Bolt, Con Rod

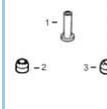
- › P115176140 x8

3) Nut, Con Rod

- › P020109120 x8

4) Con Rod

- › P115026330



1) Tappet

- › P120116160

2) Seal, Intk Valve

- › P120406070 x4

3) Seal, Exh Valve

- › P120406050 x4

Valve Train Kit

- › PVTK440

1) Valve, Intake

- › P120166350 x4

2) Valve, Exhaust

- › P120176360 x4

3) Spring, Valve

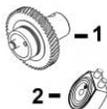
- › P198216700 x8

4) Retainer, Valve Spring

- › P120186080 x8

5) Lock, Valve

- › P120226070 x16



1) Oil Pump

- › PU5MK8267

2) Oil Cooler

- › P2486A218



1) Lift Pump

- ›

1) Thermostat

- › P145206230

3) Atomiser

- › P131406490

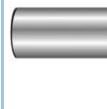
4) Pre-Fuel Filter Assy

- › P130306380



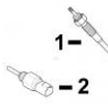
Water Pump

- › PU45010062



Repair Sleeve

- › 84RS



1) Glowplug

- › P185366190

2) Water Temp Sensor

- › PW85720580

(1): Crankshaft oil seals and after-treatment component (EGR) gaskets are not included in the gasket set

(3): Check application for proper usage.

(5): Included in P404DTOG.

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(4): Under development, not included in Valve Train Kit.

Engine Series:
400

Engine Model:
404F-E22T/TA
(EQ, ER)

Engine Desc:
Turbocharged,
Common Rail
Injection

Engine Data:
Tier 4

Engine Info:
4 Cyl

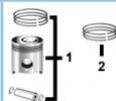
Engine Dimensions:
Bore: 3.3in /
84mm Stroke:
3.9in / 100mm
Displacement: 1
in³ / 2.2 Lt
Common Rail
Injection

Build List

EQ71371
EQ71391
EQ83170
EQ83182
EQ83271
EQ83269
EQ83372
EQ83463
ER71390
ER83171
ER83173
ER83253
ER83270
ER83281
ER83340
ER83357
ER83423
ER83443
ER83462



- 1) **Basic Engine Kit**
 › PBK550 Std.
 › 2) PBK551 0.50



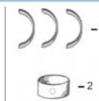
- 1) **Piston & Ring Kit**
 › P115017810 Std.
 › P115017810B 0.50
4 Per Engine
 2) **Ring Set**
 › P115104130 Std
 › P115104130B .50mm



- Main Bearing Set**
 › P198586140 Std.
 › P198586150 0.010
 › P198586160 0.020
Set of 4 Pairs



- Con Rod Bearing Set**
 › PU5ME0011 Std.
 › PU5ME0011A 0.010
 › PU5ME0011B 0.020
Set of 4 Pairs



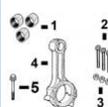
- 1) **Thrust Washer**
 › P199266200/10
Set of 3 Pcs
 2) **Crank Bushing**
 › P198517222 Std.
 › P198517226 0.010
 › P198517229 0.020



- 1) **Front Seal**
 › P198636160
 2) **Rear Seal**
 › P050209083
 3) **Crankshaft**
 › P115256990
 4) **Crankshaft Gear**
 › PU15276270
 5) **Key, Crank Gear**
 › P030509020
 6) **Flywheel Ring Gear**
 › PU15376160 126T



- 1) **O/H Gasket Set**
 › P404FTOG
 2) **Cyl Head Gasket**
 › P111147771
 3) **Oil Pan Gasket**
 › P110996920
 4) **Timing Cover Gasket**
 › P165996760
 › P165996780
 5) **Head Cover Seal**
 › PU11996520
 6) **Rocker Box Seal**
 › PU20996250
 7) **Exhaust Manifold Gasket**
 › PU35997200
 8) **Intake Spacer Plate Gasket**
 › PU35997170
 9) **Intake Manifold Gasket**
 › PU35997180



- 1) **Bush, Con Rod**
 › P198517265 x4
 2) **Bolt, Con Rod**
 › P115176140 x8
 3) **Nut, Con Rod**
 › P020109120 x8
 4) **Con Rod**
 › P115026330



- 1) **Tappet**
 › P120116160
 2) **Valve Seal**
 › P120406070 x8

- 1) **Valve, Intake**
 2) **Valve, Exhaust**

- 3) **Spring, Valve**
 › P198217470 x8
 4) **Retainer, Valve Spring**
 › P120186080 x8

- 5) **Lock, Valve**
 › P120226070 x16



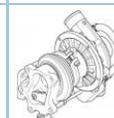
- 1) **Oil Pump**
 › PU5MK8267
 2) **Oil Cooler**
 › P2486A218



- 1) **Water Pump**
 › PU45010062
 2) **Gasket, Water Pump**
 › P145996921
 3) **Thermostat**
 › P145206230



- Repair Sleeve**
 › 84RS



- 1) **Turbocharger**
 › P135756252

(1): Does not include crankshaft seals

(3): Check application for proper usage.

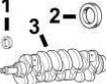
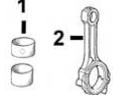
(5): For covers with 2 bolt auxiliary drive

(2): Do not use in applications that use a crankshaft driven balancer unit. This crank requires new style front gear PU15276270 (22.5mm wide) and crank key P030509020.

(4): For covers with no auxiliary drive

Engine Series: 700	Engine Model: 704-30 (UA)	Engine Data: Naturally Aspirated Direct Injection	Engine Info: 4 Cyl	Engine Dimensions: Bore: 97.00 mm Stroke: 100.00 mm
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Please see page 513 for a complete list of equipment models.

 <p>Basic Engine Kit , PBK527 Std. , PBK528 0.50 , SPEC SHEET - 700 SERIES</p>	 <p>Piston & Ring Kit , PU5LL0046 Std. , PU5LL0046B 0.50 4 Per Engine Piston Ring Set , P4181A101 Std , P4181A102 .50</p>	 <p>Main Bearing Set , PU5MB0015 Std. , PU5MB0015A 0.25 , PU5MB0015B 0.50 , PU5MB0015C 0.75 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , PU5ME0012 Std. , PU5ME0012A 0.25 , PU5ME0012B 0.50 , PU5ME0012C 0.75 Set of 4 Pairs</p>	 <p>Thrust Washer , P3112T001 Set of 2 Pcs</p>
 <p>1) Front Seal , P2418F546 2) Rear Seal , P2418F547 3) Crankshaft , PZZ90197</p>	 <p>1) Head Gasket Set , PU5LT0342 2) Lower Gasket Set , PU5LB0369 3) Head Gasket , P3681E029 4) Oil Pan Gasket , P3684N023</p>	 <p>1) Bush, Con Rod , P3112E025 x4 2) Connecting Rod , PZZ90208 3) Rod Capscrew , P3275A004</p>	 <p>1) Tappet , P3142U022 x8 2) Push Rod , P3142V004 x8</p>	
<p>Valve Train</p>	<p>1) Valve, Intake , P3142H011 x4 2) Valve, Exhaust , P3142A101 x4</p>	<p>3) Guide, Valve , P3318A702 x8 4) Spring, Valve , P3174P408 x8</p>	<p>5) Lock, Valve , P3142W003 x16 6) Seal, Valve , P2418M508 x8</p>	
 <p>1) Oil Pump , P4132F065 2) Oil Cooler , P2486A218 3) Fuel Transfer Pump , PULPK0031</p>	 <p>1) Water Pump , PU5MW0173 2) Thermostat , P2485C047</p>	 <p>1) Glowplug , P2666A014 x4 2) Fuel Stop Solenoid , P2848A279</p>		

(1): Check your build for proper usage.

(2): Fractured style rod cap

Engine Series:
700

Engine Model:
704-30T (UC)

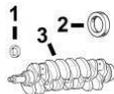
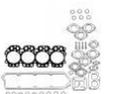
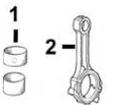
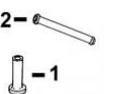
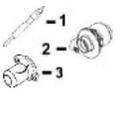
Engine Data:
Turbocharged
Direct Injection

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 97.00 mm Stroke:
100.00 mm

Build List

UC50769	UC50732
UC81203	UC70484
UC81214	UC81204
UC81238	UC81227
UC81310	UC81267
UC81326	UC81322
UC81359	UC81342

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> • PBK529 Std. • PBK530 0.50 • SPEC SHEET - 700 SERIES 	 <p>Piston & Ring Kit</p> <ul style="list-style-type: none"> • PU5LL0034 Std. • PU5LL0034B 0.50 <p>4 Per Engine</p> <p>Piston Ring Set</p> <ul style="list-style-type: none"> • P4181A101 Std • P4181A102 .50 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> • PU5MB0015 Std. • PU5MB0015A 0.25 • PU5MB0015B 0.50 • PU5MB0015C 0.75 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> • PU5ME0012 Std. • PU5ME0012A 0.25 • PU5ME0012B 0.50 • PU5ME0012C 0.75 <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> • P3112T001 <p>Set of 2 Pcs</p>
 <p>1) Front Seal</p> <ul style="list-style-type: none"> • P2418F546 <p>2) Rear Seal</p> <ul style="list-style-type: none"> • P2418F547 <p>3) Crankshaft</p> <ul style="list-style-type: none"> • ZZ90197 	 <p>1) Head Gasket Set</p> <ul style="list-style-type: none"> • PU5LT0343 <p>2) Lower Gasket Set</p> <ul style="list-style-type: none"> • PU5LB0369 <p>3) Head Gasket</p> <ul style="list-style-type: none"> • P3681E029 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> • P3684N023 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> • P3112E025 x4 <p>2) Connecting Rod</p> <ul style="list-style-type: none"> • PZZ90208 	 <p>1) Tappet</p> <ul style="list-style-type: none"> • P3142U022 x8 <p>2) Push Rod</p> <ul style="list-style-type: none"> • P3142V004 x8 	
<p>Valve Train</p>	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> • P3142H011 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> • P3142A101 x4 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> • P3318A702 x8 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> • P3174P408 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> • P3142W003 x16 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> • P2418M508 x8 	
 <p>1) Oil Pump</p> <ul style="list-style-type: none"> • P4132F065 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> • P2486A218 <p>3) Fuel Transfer Pump</p> <ul style="list-style-type: none"> • PULPK0031 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> • PU5MW0175 <p>2) Thermostat</p> <ul style="list-style-type: none"> • P2485613 	 <p>1) Glowplug</p> <ul style="list-style-type: none"> • P2666A014 x4 <p>2) Turbocharger</p> <ul style="list-style-type: none"> • P2674A177 <p>3) Fuel Stop Solenoid</p> <ul style="list-style-type: none"> • P2848A279 		

(1): Check your build for proper usage.

(2): Fractured style rod cap

Engine Series: 800	Engine Model: 804C-33 (UE) 804D-33 (UK)	Engine Data: NATURALLY ASPIRATED INDIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm Piston Compression Height: 2.165 in / 55 mm
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Compressors	Industrial	Telehandlers	Genie-Boom Lifts
UK35219 UK35220 UK82294	UE35138 UE35139 UE35140 UE35141 UE35243 UE35247	UK35221 UK35264 UK35242 UK71055 UK71147	S80X S80 S85 Z80/60



Basic Engine Kit
 , PBK851 Std.
 , PBK852 0.50
 , Spec Sheet - 800C/D Series



Piston & Ring Kit
 , PMPPK0001 Std.
 , PMPPK0001B
4 Per Engine



Main Bearing Set
 , PMPMB0001 Std.
 , PMPMB0001A
 , PMPMB0001B
 , PMPMB0001C
Set of 5 Pairs



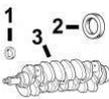
Con Rod Bearing Set
 , PMPBE0002 Std.
 , PMPBE0002A
 , PMPBE0002B
 , PMPBE0002C
Set of 4 Pairs



Thrust Washer
 , PMPTW0001 Std.
Set of 3 Pcs

Piston Kit:

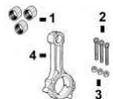
- 1) 1 x [PMP10275](#) Piston Kit Std, 1 x [PMPRK0001](#) Ring Set Std.
- 2) 1 x [PMP10277](#) Piston Kit 0.50 mm, 1 x [PMPRK0001B](#) Ring Set 0.50 mm.



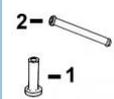
- 1) **Front Seal**
 , PMP10072
- 2) **Rear Seal**
 , PMP10085
- 3) **Crankshaft**
 , PMP10529



- 1) **O/H Gasket Set**
 , P804OG 3
- 2) **Cyl Head Gasket**
 , PMP10550
- 3) **Valve Cover Gasket**
 , PMP10037 1
- 4) **Oil Pan Gasket**
 , P21826051 2
 , P804OPG 2



- 1) **Bush, Con Rod**
 , PMP10279 x4
- 2) **Bolt, Con Rod**
 , PMP10100 x8
- 3) **Nut, Con Rod**
 , PMP10099 x8
- 4) **Con Rod Kit**
 , PMP10278



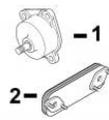
- 1) **Tappet**
 , PMP10044 x8
- 2) **Push Rod**
 , PMP10043 x8

Valve Train

- 1) **Valve, Intake**
 , PMP10426 x4
- 2) **Valve, Exhaust**
 , PMP10423 x4

- 3) **Guide, Valve**
 , PMP10526 x8
- 4) **Spring, Valve**
 , PMP10029 x8

- 5) **Lock, Valve**
 , PMP10032 x16
- 6) **Seal, Valve**
 , PMP10030 x8



- 1) **Oil Pump**
 , PMP20040
- 2) **Oil Cooler**
 , PMP10311



- 1) **Water Pump**
 , PMP10187 1
 , PMP10552 1
- 2) **Thermostat**
 , PMP10198



- Glowplug**
 , PMP10574 x4



- Fuel Pump**
 , PMP10325 1

(1): Check your build for proper usage.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

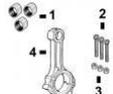
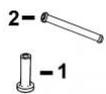
Engine Series: 800	Engine Model: 804C-33T (UF)	Engine Data: TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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Please see page 514 for a complete list of equipment models.

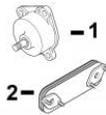
 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> ▸ PBK854 Std. ▸ PBK855 0.50 ▸ Spec Sheet - 800C/D Series 	 <p>Piston & Ring Kit</p> <ul style="list-style-type: none"> ▸ PMPPK0002 Std. ▸ PMPPK0002B <p>4 Per Engine</p>	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> ▸ PMPMB0001 Std. ▸ PMPMB0001A ▸ PMPMB0001B ▸ PMPMB0001C <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> ▸ PMPBE0002 Std. ▸ PMPBE0002A ▸ PMPBE0002B ▸ PMPBE0002C <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> ▸ PMPTW0001 Std. <p>Set of 3 Pcs</p>
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Piston Kit:

- 1) 1 x PMP10095 Piston Std, 1 x PMPRK0001 Ring Set Std.
- 2) 1 x PMP10251 Piston 0.50 mm, 1 x PMPRK0001B Ring Set 0.50 mm.

 <p>1) Front Seal</p> <ul style="list-style-type: none"> ▸ PMP10072 <p>2) Rear Seal</p> <ul style="list-style-type: none"> ▸ PMP10085 	 <p>1) O/H Gasket Set</p> <ul style="list-style-type: none"> ▸ P804TOG <p>2) Cyl Head Gasket</p> <ul style="list-style-type: none"> ▸ PMP10575 <p>3) Valve Cover Gasket</p> <ul style="list-style-type: none"> ▸ PMP10037 <p>4) Oil Pan Gasket</p> <ul style="list-style-type: none"> ▸ P21826051 ▸ P804OPG 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> ▸ PMP10279 x4 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> ▸ PMP10100 x8 <p>3) Nut, Con Rod</p> <ul style="list-style-type: none"> ▸ PMP10099 x8 <p>4) Con Rod Kit</p> <ul style="list-style-type: none"> ▸ PMP10278 	 <p>1) Tappet</p> <ul style="list-style-type: none"> ▸ PMP10044 x8 <p>2) Push Rod</p> <ul style="list-style-type: none"> ▸ PMP10043 x8
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Valve Train	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> ▸ PMP10426 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> ▸ PMP10423 x4 	<p>3) Guide, Valve</p> <ul style="list-style-type: none"> ▸ PMP10526 x8 <p>4) Spring, Valve</p> <ul style="list-style-type: none"> ▸ PMP10029 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> ▸ PMP10032 x16 <p>6) Seal, Valve</p> <ul style="list-style-type: none"> ▸ PMP10030 x8
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 <p>1) Oil Pump</p> <ul style="list-style-type: none"> ▸ PMP20040 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> ▸ PMP10164 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> ▸ PMP10187 ▸ PMP10552 <p>2) Thermostat</p> <ul style="list-style-type: none"> ▸ PMP10198 	 <p>Glowplug</p> <ul style="list-style-type: none"> ▸ PMP10238 x4 	 <p>Fuel Lines</p> <ul style="list-style-type: none"> ▸ 1) PMP10218 ▸ 2) PMP10219 ▸ 3) PMP10220 ▸ 4) PMP10353 	 <p>Fuel Pump</p> <ul style="list-style-type: none"> ▸ PMP10325
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(1): Check application for proper use.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

(3): Crankshaft seals not included in gasket set. Order separately.

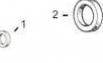
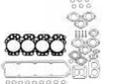
Engine Series: 800	Engine Model: 804D-33T (UL)	Engine Data: TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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Please see page 515 for a complete list of equipment models.

 <p>Basic Engine Kit</p> <ul style="list-style-type: none"> ▸ PBK857 Std. ▸ PBK858 0.50 ▸ Spec Sheet - 800C/D Series 	 <p>Piston & Ring Kit</p> <ul style="list-style-type: none"> ▸ PMPPK0003 Std. ▸ PMPPK0003B <p>4 Per Engine</p>	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> ▸ PMPMB0001 Std. ▸ PMPMB0001A ▸ PMPMB0001B ▸ PMPMB0001C <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> ▸ PMPBE0002 Std. ▸ PMPBE0002A ▸ PMPBE0002B ▸ PMPBE0002C <p>Set of 4 Pairs</p>	 <p>Thrust Washer</p> <ul style="list-style-type: none"> ▸ PMPTW0001 Std. <p>Set of 3 Pcs</p>
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Piston Kit:

- 1) 1 x PMP20015 Piston Std, 1 x PMPRK0002 Ring Set Std.
- 2) 1 x PMP20017 Piston 0.50 mm, 1 x PMPRK0002B Ring Set 0.50 mm.

 <p>1) Front Seal ▸ PMP10072</p> <p>2) Rear Seal ▸ PMP10085</p>	 <p>1) O/H Gasket Set ▸ P804TOG</p> <p>2) Cyl Head Gasket ▸ PMP10575</p> <p>3) Valve Cover Gasket ▸ PMP10037</p> <p>4) Oil Pan Gasket ▸ P21826051 ▸ P804OPG</p>	 <p>1) Bush, Con Rod ▸ PMP10279 x4</p> <p>2) Bolt, Con Rod ▸ PMP10100 x8</p> <p>3) Nut, Con Rod ▸ PMP10099 x8</p> <p>4) Con Rod Kit ▸ PMP10278</p>	 <p>1) Tappet ▸ PMP10044 x8</p> <p>2) Push Rod ▸ PMP10043 x8</p>
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Valve Train	<p>1) Valve, Intake ▸ PMP10426 x4</p> <p>2) Valve, Exhaust ▸ PMP10423 x4</p>	<p>3) Guide, Valve ▸ PMP10526 x8</p> <p>4) Spring, Valve ▸ PMP10029 x8</p>	<p>5) Lock, Valve ▸ PMP10032 x16</p> <p>6) Seal, Valve ▸ PMP10030 x8</p>
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 <p>1) Oil Pump ▸ PMP20040</p> <p>2) Oil Cooler ▸ PMP10164</p>	 <p>1) Water Pump ▸ PMP10187 ▸ PMP10552</p> <p>2) Thermostat ▸ PMP10198</p>	 <p>Glowplug ▸ PMP10238 x4</p>	 <p>Fuel Lines</p> <ul style="list-style-type: none"> ▸ 1) PMP10218 ▸ 2) PMP10219 ▸ 3) PMP10220 ▸ 4) PMP10353 	 <p>Fuel Pump ▸ PMP10325</p>
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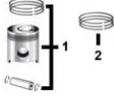
(1): Check application for proper use.

(2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.

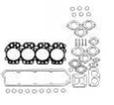
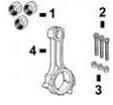
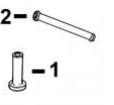
(3): Crankshaft seals not included in gasket set. Order separately.

Engine Series: 800	Engine Model: 804D-33T (UL)	Engine Data: TURBOCHARGED DIRECT INJECTION	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.7 in / 94.00 mm Stroke: 4.72 in / 120.00 mm
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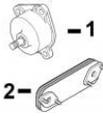
Build List UL70854	Skid Steer UL35238 UL70854	UL71102	Wheel Loaders UL35226 UL35227 UL71309	UL35228 UL35265
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 <p>Basic Engine Kit , PBK860 Std. , PBK861 0.50 , Spec Sheet - 800C/D Series</p>	 <p>Piston & Ring Kit , PMPPK2001 Std. , PMPPK2001B 0.50 4 Per Engine</p>	 <p>Main Bearing Set , PMPMB0001 Std. , PMPMB0001A , PMPMB0001B , PMPMB0001C Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , PMPBE0002 Std. , PMPBE0002A , PMPBE0002B , PMPBE0002C Set of 4 Pairs</p>	 <p>Thrust Washer , PMPTW0001 Std. Set of 3 Pcs</p>
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Piston Kit:
 1) 1 x PMP20012 Piston Std, 1 x PMPRK0002 Ring Set Std.
 2) 1 x PMP20014 Piston 0.50 mm, 1 x PMPRK0002B Ring Set 0.50 mm.

 <p>1) Front Seal , PMP10072 2) Rear Seal , PMP10085</p>	 <p>1) O/H Gasket Set , P804TOG 2) Cyl Head Gasket , PMP10575 3) Valve Cover Gasket , PMP10037 4) Oil Pan Gasket , P21826051 , P804OPG</p>	 <p>1) Bush, Con Rod , PMP10279 x4 2) Bolt, Con Rod , PMP10100 x8 3) Nut, Con Rod , PMP10099 x8 4) Con Rod Kit , PMP10278</p>	 <p>1) Tappet , PMP10044 x8 2) Push Rod , PMP10043 x8</p>
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Valve Train	1) Valve, Intake , PMP10426 x4 2) Valve, Exhaust , PMP10423 x4	3) Guide, Valve , PMP10526 x8 4) Spring, Valve , PMP10029 x8	5) Lock, Valve , PMP10032 x16 6) Seal, Valve , PMP10030 x8
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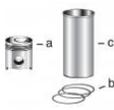
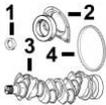
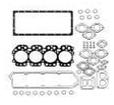
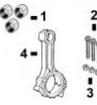
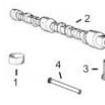
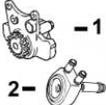
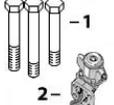
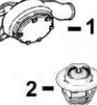
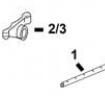
 <p>1) Oil Pump , PMP20040 2) Oil Cooler , PMP10164</p>	 <p>1) Water Pump , PMP10187 , PMP10552 2) Thermostat , PMP10198</p>	 <p>Glowplug , PMP10238 x4</p>	 <p>Fuel Lines , 1) PMP10218 , 2) PMP10219 , 3) PMP10220 , 4) PMP10353</p>	 <p>Fuel Pump , PMP10325</p>
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(1): Check application for proper use.
 (2): For gaskets made of silicone, use P21826051. For gaskets made of paper gasket material, use P804OPG.
 (3): Crankshaft seals not included in gasket set. Order separately.

Engine Series: 1000 **Engine Model:** 1004.40 (AA) **Engine Desc:** NATURALLY ASPIRATED **Engine Data:** Lip Seal **Engine Info:** 4 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm

Please see page 516 for a complete list of equipment models.

 <p>1) Engine O/H Kit • POK470</p> <p>2) Basic Engine Kit • PBK470 • SPEC SHEET - 1004.40</p>	 <p>Piston-Liner Kit • PCK142</p> <p>Consist of:</p> <p>a) PMXF0015 b) P4181A019 c) P3135X042</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P81558 <i>Std.</i> • P81558A <i>0.010</i> • P81558B <i>0.020</i> • P81558C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85042 <i>Std.</i> • P85042A <i>0.010</i> • P85042B <i>0.020</i> • P85042C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 <i>Std.</i> • P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F475 • P2418F701</p> <p>3) Crankshaft Kit • PZZ90202</p> <p>4) Ring Gear • P0410236 <i>115T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • PU5LT0178</p> <p>2) Bottom Gasket • PU5LB0151</p> <p>3) Valve Cover Gsk • P3681A021</p> <p>4) Head Gasket • P3681E025</p> <p>5) Oil Pan Set • PU5MK0600</p>	 <p>1) Bush, Con Rod • P31134123 <i>x4</i></p> <p>2) Bolt, Con Rod • P32762144 <i>x8</i></p> <p>3) Nut, Con Rod • P33221328 <i>x8</i></p> <p>4) Con Rod • PZZ90009</p>	 <p>1) Bushing, Cam • P31134132 <i>x1</i></p> <p>2) Camshaft • P31415361</p> <p>3) Tappet • P31434163</p> <p>4) Pushrod • P31434307</p>	 <p>1) Camshaft Gear • P31171353</p>
<p>Valve Train Kit • PVTK415</p>	<p>1) Valve, Intake • P3142L051 <i>x4</i></p> <p>2) Valve, Exhaust • P3142A051 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3343F002 <i>x4</i> • 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P31744133 <i>x8</i> • 4b) P31745122 <i>x8</i></p>	<p>5) Lock, Valve • P33173108 <i>x16</i></p> <p>6) Seal, Valve • P33817117 <i>x8</i></p>
 <p>1) Oil Pump • P4132F051</p> <p>2) Oil Cooler • P2486A218 • P2486A222 • P2486A241 • P2486A991</p>	 <p>1) Cylinder Head Bolt • P32166219 <i>x8</i> • P32166221 <i>x12</i> • P32166222 <i>x2</i></p> <p>2) Lift Pump • P2641A067</p>	 <p>1) Water Pump • P4131E012 • PU5MW0159</p> <p>2) Thermostat • P2485613</p> <p>3) Water Pump Gasket • P3687Y016</p>	 <p>1) Rocker Shaft • PZZ90032</p> <p>2) Rocker Arm LH • P41151483</p> <p>3) Rocker Arm RH • P41151484</p> <p>4) Piston Cooling Nozzle • P3861A027</p>	 <p>1) Cylinder Head • PZZ80221 • PZZ80218UF</p> <p>2) Heater Plug • P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch • P2848062</p>

(1): Flanged, Semi Finished Liner available, P3135X041

(3): To ESN U176356H.

(5): Applies to AA50608 Only.

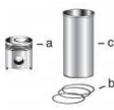
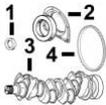
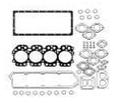
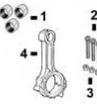
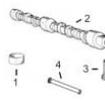
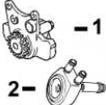
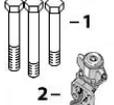
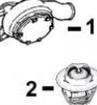
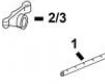
(2): Use Single Spring, Valve P3174P405 for low speed applications (Not included in Kit).

(4): From ESN U176357H.

(6): Check application for proper usage

Engine Series: 1000
Engine Model: 1004.40 (AA)
Engine Desc: NATURALLY ASPIRATED
Engine Data: Lip Seal
Engine Info: 4 Cyl
Engine Dimensions:
 Bore: 3.937 in / 100.00 mm

Please see page 517 for a complete list of equipment models.

 <p>1) Engine O/H Kit , POK478 2) Basic Engine Kit , PBK478 , SPEC SHEET - 1004.40</p>	 <p>Piston-Liner Kit , PCK1562 Consist of: a) PMXF0015 b) P4181A019 c) P3135X062 4 Per Engine</p>	 <p>Main Bearing Set , P81558 Std. , P81558A 0.010 , P81558B 0.020 , P81558C 0.030 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , P85042 Std. , P85042A 0.010 , P85042B 0.020 , P85042C 0.030 Set of 4 Pairs</p>	 <p>Thrust Washer Set , P31137551/61 Std. , P31137312/22 0.007 Set of 2 Pairs</p>
 <p>1) Front Seal , P2418F436 2) Rear Seal , P2418F475 , P2418F701 3) Crankshaft Kit , PZZ90202 4) Ring Gear , P0410236 115T , P31162121 126T</p>	 <p>1) Top Gasket Set , PU5LT0178 2) Bottom Gasket , PU5LB0151 3) Valve Cover Gsk , P3681A021 4) Head Gasket , P3681E025 5) Oil Pan Set , PU5MK0600</p>	 <p>1) Bush, Con Rod , P31134123 x4 2) Bolt, Con Rod , P32762144 x8 3) Nut, Con Rod , P33221328 x8 4) Con Rod , PZZ90009</p>	 <p>1) Bushing, Cam , P31134132 x1 2) Camshaft , P31415361 3) Tappet , P31434163 4) Pushrod , P31434307</p>	 <p>1) Camshaft Gear , P31171353</p>
<p>Valve Train Kit , PVTK415</p>	<p>1) Valve, Intake , P3142L051 x4 2) Valve, Exhaust , P3142A051 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust , 3a) P3343F002 x4 , 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) P31744133 x8 , 4b) P31745122 x8</p>	<p>5) Lock, Valve , P33173108 x16 6) Seal, Valve , P33817117 x8</p>
 <p>1) Oil Pump , P4132F051 2) Oil Cooler , P2486A218 , P2486A222 , P2486A241 , P2486A991</p>	 <p>1) Cylinder Head Bolt , P32166219 x8 , P32166221 x12 , P32166222 x2 2) Lift Pump , P2641A067</p>	 <p>1) Water Pump , P4131E012 , PU5MW0159 2) Thermostat , P2485613 3) Water Pump Gasket , P3687Y016</p>	 <p>1) Rocker Shaft , PZZ90032 2) Rocker Arm LH , P41151483 3) Rocker Arm RH , P41151484</p>	 <p>1) Cylinder Head , PZZ80221 , PZZ80218UF 2) Heater Plug , P2666108 (Bayonet Fitting) 3) Oil Pressure Switch , P2848062</p>

(1): Flanged, Semi Finished Liner available, P3135X063

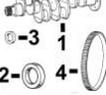
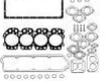
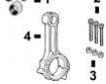
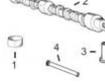
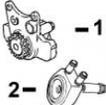
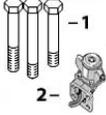
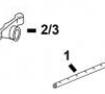
(2): Use Single Spring, Valve P3174P405 for low speed applications (Not included in Kit).

(3): To ESN U176356H.

(4): From ESN U176357H.

(5): Check application for proper usage

PERKINS 1004.40T TO ESN U608300W (1992)

<p>Engine Series: 1000</p> <p>Engine Model: 1004.40T (AB), (AH)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Lip Seal To ESN u608300W (1992)</p>	 <p>1) Engine O/H Kit ‣ POK471</p> <p>2) Basic Engine Kit ‣ PBK471 ‣ SPEC SHEET - 1004.40</p>	 <p>Piston-Liner Kit ‣ PCK275</p> <p>Consist of: ‣ a) PMXF0014 ‣ b) P4181A026 ‣ c) P3135X042</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0006 Std. ‣ PU5ME0006A 0.010 ‣ PU5ME0006B 0.020 ‣ PU5ME0006C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.937 in / 100.00 mm</p> <p>Jcb 3CX Backhoe - (AB50609) 3CX Backhoe - (AB50279) 415 Loader - (AB50253)</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90212</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0178</p> <p>2) Bottom Gasket ‣ PU5LB0152</p> <p>3) Valve Cover Gsk ‣ P3681A021</p> <p>4) Head Gasket ‣ P3681E025</p> <p>5) Oil Pan Set ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134131 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90058 ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415361</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	
<p>Tovel TL20-22-25 - Telehandler TL6-44-36 - Telehandler</p>	<p>Valve Train Kit ‣ PVTK416</p>	<p>1) Valve, Intake ‣ P3142L071 x4</p> <p>2) Valve, Exhaust ‣ P3142A051 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744133 x8 ‣ 4b) P31745122 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
<p>Bobcat 963 - Skid Steer</p>	 <p>1) Oil Pump ‣ P4132F041 ‣ P4132F056</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219 ‣ P2486A222 ‣ P2486A241 ‣ P2486A991</p>	 <p>1) Cylinder Head Bolt ‣ P32166219 x8 ‣ P32166221 x12 ‣ P32166222 x2</p> <p>2) Lift Pump ‣ P2641A067</p>	 <p>1) Water Pump ‣ P4131E012 ‣ PU5MW0159 ‣ PU5MW0195</p> <p>2) Thermostat ‣ P2485613</p> <p>3) Turbocharger ‣ P2674A301 ‣ P2674A153</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Piston Cooling Nozzle ‣ P3861A027</p>	 <p>1) Cylinder Head ‣ PZZ80221</p> <p>2) Heater Plug ‣ P2666108</p> <p>3) Oil Pressure Switch ‣ P2848062</p>

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use single spring, valve 3174P405 for low speed applications (Not available from Maxiforce).

(3): Check application for proper usage.

(4): Fracture Split Type.

(5): Applies to AB50609 Only.

(6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(7): Use for AB builds only. check your application for proper use. (8): Engines with Balancer Unit.

PERKINS 1004.40T FROM ESN U608301W (1992)

Engine Series:
1000

Engine Model:
1004.40T
(AB, AH)

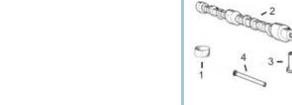
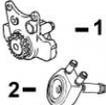
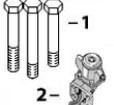
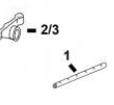
Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal
From ESN
U608301W
(1992)

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in
/ 100.00 mm

Please see page 518 for a complete list of equipment models.

 <p>1) Engine O/H Kit ‣ POK472</p> <p>2) Basic Engine Kit ‣ PBK472 ‣ SPEC SHEET - 1004.40</p>	 <p>Piston-Liner Kit ‣ PCK275</p> <p>Consist of: ‣ a) PMXF0014 ‣ b) P4181A026 ‣ c) P3135X042</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0006 Std. ‣ PU5ME0006A 0.010 ‣ PU5ME0006B 0.020 ‣ PU5ME0006C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475 ‣ P2418F701</p>	 <p>1) Top Gasket Set ‣ PU5LT0178</p> <p>2) Bottom Gasket ‣ PU5LB0152</p> <p>3) Valve Cover Gsk ‣ P3681A021</p> <p>4) Head Gasket ‣ P3681E025</p> <p>5) Oil Pan Set ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134131 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415361</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	
<p>Valve Train Kit ‣ PVTK417</p>	<p>1) Valve, Intake ‣ P3142L072 x4</p> <p>2) Valve, Exhaust ‣ 2) P3142A051 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744133 x8 ‣ 4b) P31745122 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
 <p>1) Oil Pump ‣ P4132F041 ‣ P4132F056</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219 ‣ P2486A222 ‣ P2486A241 ‣ P2486A991</p>	 <p>1) Cylinder Head Bolt ‣ P32166219 x8 ‣ P32166221 x12 ‣ P32166222 x2</p> <p>2) Lift Pump ‣ P2641A067</p>	 <p>1) Water Pump ‣ P4131E012 ‣ PU5MW0159 ‣ PU5MW0195</p> <p>2) Thermostat ‣ P2485613</p> <p>3) Turbocharger ‣ P2674A301 ‣ P2674A153</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Cylinder Head ‣ PZZ80221</p> <p>2) Heater Plug ‣ P2666108</p> <p>3) Oil Pressure Switch ‣ P2848062</p>

(1): Flanged, Semi Finished Liner available, P3135X041

(2): Use single spring, valve 3174P405 for low speed applications (Not available from Maxiforce).

(3): Check application for proper usage

(4): To ESN U176356H.

(5): From ESN U176357H.

(6): Applies to AB50609 Only.

(7): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

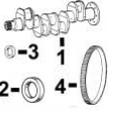
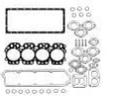
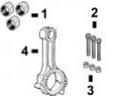
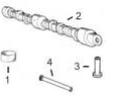
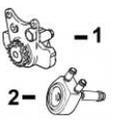
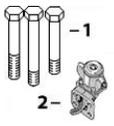
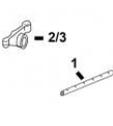
(8): Use for AB builds only. check your application for proper use.

(9): Engines with Balancer Unit.

Engine Series: 1000	Engine Model: 1004.40T (AB)	Engine Desc: GRADE "L"	Engine Data: TURBOCHARGED/ INTERCOOLED Lip Seal	Engine Info: 4 Cyl
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Engine Dimensions:
Bore: 3.937 in / 100.00 mm Stroke: 5.00 in / 127.00 mm Piston height: 2.767 in / 70.161 mm

Tovel TL20-22-25 - Telehandler	Bobcat TL6-44-36 - Telehandler	963 - Skid Steer
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 <p>1) Engine O/H Kit , POK496</p> <p>2) Basic Engine Kit , PBK496 , SPEC SHEET - 1004.40</p>	 <p>Piston-Liner Kit , PCK624</p> <p>Consist of: , a) PU5LF0024 , b) P4181A026 , c) P3135X062</p> <p>4 Per Engine</p>	 <p>Main Bearing Set , P81558 Std. , P81558A 0.010 , P81558B 0.020 , P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , PU5ME0006 Std. , PU5ME0006A 0.010 , PU5ME0006B 0.020 , PU5ME0006C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set , P31137551/61 Std. , P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal , P2418F436</p> <p>2) Rear Seal , P2418F475</p> <p>3) Crankshaft Kit , PZZ90212</p> <p>4) Ring Gear , P0410236 115T , P31162121 126T</p>	 <p>1) Top Gasket Set , PU5LT0178</p> <p>2) Bottom Gasket , PU5LB0152</p> <p>3) Valve Cover Gsk , P3681A021</p> <p>4) Head Gasket , P3681E025</p> <p>5) Oil Pan Set , PU5MK0600</p>	 <p>1) Bush, Con Rod , P3112E005 x4</p> <p>2) Bolt, Con Rod , P32186142 x8</p> <p>3) Nut, Con Rod , P3246A001 x8</p> <p>4) Con Rod , PZZ90146</p>	 <p>1) Bushing, Cam , P31134132 x1</p> <p>2) Camshaft , P31415361</p> <p>3) Tappet , P31434163</p> <p>4) Pushrod , P31434307</p>	
<p>Valve Train Kit , PVTK417</p>	<p>1) Valve, Intake , P3142L072 x4</p> <p>2) Valve, Exhaust , P3142A051 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust , 3a) P3343F002 x4 , 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) P31744133 x8 , 4b) P31745122 x8</p>	<p>5) Lock, Valve , P33173108 x16</p> <p>6) Seal, Valve , P33817117 x8</p>
 <p>1) Oil Pump , P4132F056</p> <p>2) Oil Cooler , P2486A218 , P2486A219 , P2486A222 , P2486A241 , P2486A991</p>	 <p>1) Cylinder Head Bolt , P32166219 x8 , P32166221 x12 , P32166222 x2</p> <p>2) Lift Pump , P2641A067</p>	 <p>1) Water Pump , P4131E012 , PU5MW0159</p> <p>2) Thermostat , P2485613</p> <p>3) Turbocharger , P2674A153</p>	 <p>1) Rocker Shaft , PZZ90032</p> <p>2) Rocker Arm LH , P41151483</p> <p>3) Rocker Arm RH , P41151484</p> <p>4) Piston Cooling Nozzle , P3861A027</p>	 <p>1) Heater Plug , P2666108</p> <p>2) Oil Pressure Switch (Bayonet Fitting) , P2848062</p>

(1): Flanged, Semi Finished Liner available, P3135X063
(3): Check application for proper usage

(2): Use with Con Rod PZZ90146
(4): Use for AB builds only. check your application for proper use.

Engine Series:
1000

Engine Model:
1004.40/40T
(AJ, AK, AM,
AP, AQ)

Engine Data:
TURBOCHARGE
or
NATURALLY
ASPIRATED
Lip Seal

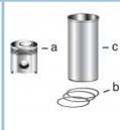
Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Please see
page 519 for a
complete list of
equipment
models.



- 1) Engine O/H Kit**
 › POK473/45
 › POK473/30
2) Basic Engine Kit
 › PBK473
 › SPEC SHEET -
 1004.40



- Piston-Liner Kit**
 › PCK5762
Consist of:
 › a) PU5LP0057
 › b) P4181A033
 › c) P3135X062
4 Per Engine



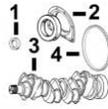
- Main Bearing Set**
 › P81558 Std.
 › P81558A 0.010
 › P81558B 0.020
 › P81558C 0.030
Set of 5 Pairs



- Con Rod Bearing Set**
 › PU5ME0006 Std.
 › PU5ME0006A 0.010
 › PU5ME0006B 0.020
 › PU5ME0006C 0.030
Set of 4 Pairs



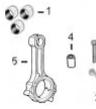
- Thrust Washer Set**
 › P31137551/61 Std.
 › P31137312/22 0.007
Set of 2 Pairs



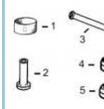
- 1) Front Seal**
 › P2418F436
2) Rear Seal
 › P2418F475
 › P2418F701
3) Crankshaft Kit
 › PZZ90212
4) Ring Gear
 › P0410236 115T
 › P31162121 126T



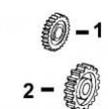
- 1) Top Gasket Set**
 › PU5LT0202
2) Bottom Gasket
 › PU5LB1171
3) Valve Cover Gsk
 › P3681A049
4) Head Gasket
 › P3681E025
5) Gasket, Manifold
 › P3688C042



- 1) Bush, Con Rod**
 › P3112E011 x4
2) Bolt, Con Rod
 › P32186142 x8
 › P32762144 x8
3) Nut, Con Rod
 › P33221328 x8
4) Dowel, Con Rod
 › P3246A001 x8
5) Connecting Rod
 › PZZ90146



- 1) Bushing, Cam**
 › P31134132 x1
2) Tappet
 › P31434163
3) Pushrod
 › P31434307
4) Seal, Exh Valve
 › P2418M505 x4
5) Seal, Intk Valve
 › P2418M506 x4



- 1) Camshaft Gear**
 › P3117L023

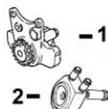
- Valve Train Kit**
 › a) 45 b) 30
 › a) PVTK423
 › b) PVTK424

- 1) Valve, Intake**
 › a) 45 b) 30 x4
 › 1a) P3142D041 x4
 › 1b) P3142L081 x4
2) Valve, Exhaust
 › 2a) P3142D031 x4
 › 2b) P3142D051 x4

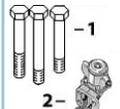
- 3) Guide, Valve**
a) Intake b) Exhaust
 › 3a) P3313A012 x4
 › 3b) P3318A705 x4

- 4) Spring, Valve**
 › P3174P409 x8

- 5) Lock, Valve**
 › P3142W004 x16



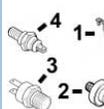
- 1) Oil Pump**
 › P4132F056
 › P4132F041
2) Oil Cooler
 › P2486A218
 › P2486A219
 › P2486A222
 › P2486A241
 › P2486A991



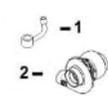
- 1) Cylinder Head Bolt**
 › P32166219 x8
 › P32166221 x12
 › P32166222 x2
2) Lift Pump
 › P2641A067



- 1) Water Pump**
 › PU5MW0192
 › PU5MW0195
2) Water Pump Gasket
 › P3687Y016
3) Thermostat
 › P2485C034
 › P2485C036
4) Thermostat Assembly
 › P4133L032
 › P4133L036



- 1) Heater Plug**
 › P2666108
(Bayonet Fitting)
2) Oil Pressure Switch
 › P2848062
3) Temp Sensor
 › P2848A121
4) Water Temp Sensor
 › P2848A123



- 1) Piston Cooling Nozzle**
 › P3861A027
2) Turbocharger
 › P2674A371
 › P2674A382
 › P2674A391
 › P2674A373

(1): Flanged, Semi Finished Liner available, P3135X063

(3): To ESN U176356H.

(5): To ESN U284277J.

(7): Used on builds AK and AP Only.

(9): Use for AJ, AK, and AM builds only. check your application for proper use.

(2): Use in engines with Balancer Units.

(4): From ESN U176357H.

(6): May use Bottom Gasket Set PU5LB1310

(8): Check application for proper usage.

(10): Takes P32186142 x 8 and P3246A001 x 8.

PERKINS 1004.40/40T FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1004.40/40T
(AJ, AK, AM,
AP, AQ)

Engine Data:
TURBOCHARGE
or
NATURALLY
ASPIRATED
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.937 in
/ 100.00 mm

Job
Backhoe -
(AK50628)
Shovel Loader -
(AK50610)

Tovel
TL20-22-25 -
Telehandler
TL6-44-36 -
Telehandler

Bobcat
963 - Skid Steer

**Massey
Ferguson**

Tractor -
(AK31299)

Manitou
MRT1432M -
Telescopic
Handler



- 1) **Engine O/H Kit**
 - › POK497/45
 - › POK497/30
- 2) **Basic Engine Kit**
 - › PBK497
 - › SPEC SHEET - 1004.40



- 1) **Piston-Liner Kit**
 - › PCK5762
- Consist of:**
 - › a) PU5LP0057
 - › b) P4181A033
 - › c) P3135X062
- 4 Per Engine**



- 1) **Main Bearing Set**
 - › P81558 Std.
 - › P81558A 0.010
 - › P81558B 0.020
 - › P81558C 0.030
- Set of 5 Pairs**



- 1) **Con Rod Bearing Set**
 - › PU5ME0013 Std.
 - › PU5ME0013A 0.010
 - › PU5ME0013B 0.020
 - › PU5ME0013C 0.030
- Set of 4 Pairs**



- 1) **Thrust Washer Set**
 - › P31137551/61 Std.
 - › P31137312/22 0.007
- Set of 2 Pairs**



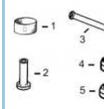
- 1) **Front Seal**
 - › P2418F436
- 2) **Rear Seal**
 - › P2418F475
 - › P2418F701
- 3) **Crankshaft Kit**
 - › PZZ90226
- 4) **Ring Gear**
 - › P0410236 115T
 - › P31162121 126T



- 1) **Top Gasket Set**
 - › PU5LT0202
- 2) **Bottom Gasket**
 - › PU5LB1171
- 3) **Valve Cover Gsk**
 - › P3681A049
- 4) **Head Gasket**
 - › P3681E025
- 5) **Gasket, Manifold**
 - › P3688C042



- 1) **Bush, Con Rod**
 - › P3112A005 x4
- 2) **Bolt, Con Rod**
 - › P3212V003 x8
- 3) **Con Rod**
 - › P4115C314



- 1) **Bushing, Cam**
 - › P31134132 x1
- 2) **Tappet**
 - › P31434163
- 3) **Pushrod**
 - › P31434307
- 4) **Seal, Exh Valve**
 - › P2418M505 x4
- 5) **Seal, Intk Valve**
 - › P2418M506 x4



- 1) **Camshaft Gear**
 - › P3117L023

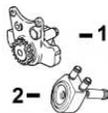
- 1) **Valve Train Kit**
 - › a) 45 b) 30
 - › a) PVTK423
 - › b) PVTK424

- 1) **Valve, Intake**
 - › a) 45 b) 30 x4
 - › 1a) P3142D041 x4
 - › 1b) P3142L081 x4
- 2) **Valve, Exhaust**
 - › 2a) P3142D031 x4
 - › 2b) P3142D051 x4

- 3) **Guide, Valve**
 - a) **Intake** b) **Exhaust**
 - › 3a) P3313A012 x4
 - › 3b) P3318A705 x4

- 4) **Spring, Valve**
 - › P3174P409 x8

- 5) **Lock, Valve**
 - › P3142W004 x16



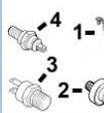
- 1) **Oil Pump**
 - › P4132F056
 - › P4132F041
- 2) **Oil Cooler**
 - › P2486A218
 - › P2486A219
 - › P2486A222
 - › P2486A241
 - › P2486A991



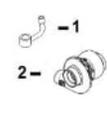
- 1) **Cylinder Head Bolt**
 - › P32166219 x8
 - › P32166221 x12
 - › P32166222 x2
- 2) **Lift Pump**
 - › P2641A067



- 1) **Water Pump**
 - › PU5MW0192
 - › PU5MW0195
- 2) **Water Pump Gasket**
 - › P3687Y016
- 3) **Thermostat**
 - › P2485C034
 - › P2485C036
- 4) **Thermostat Assembly**
 - › P4133L032
 - › P4133L036



- 1) **Heater Plug**
 - › P2666108
- (Bayonet Fitting)
- 2) **Oil Pressure Switch**
 - › P2848062
- 3) **Temp Sensor**
 - › P2848A121
- 4) **Water Temp Sensor**
 - › P2848A123



- 1) **Piston Cooling Nozzle**
 - › P3861A027
- 2) **Turbocharger**
 - › P2674A371
 - › P2674A382
 - › P2674A391
 - › P2674A373

(1): Flanged, Semi Finished Liner available, P3135X063

(3): To ESN U176356H.

(5): PZZ90226 From ESN U284278J.

(7): Used on builds AK and AP Only.

(9): Grade J, Color Coded Green.

(2): Use in engines with Balancer Units.

(4): From ESN U176357H.

(6): May use Bottom Gasket Set PU5LB1310

(8): Check application for proper usage.

(10): Use for AJ, AK, and AM builds only. check your application for proper use.

Engine Series:
1000

Engine Model:
1004.42 (AR, AS)

Engine Desc:
NATURALLY ASPIRATED

Engine Data:
Lip Seal
Sleeveless Engines

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.055 in / 103.00 mm

Hyster

S80-155XL - (AR70414)
H80-155XL - (AR70417)
H80-155XM - (AR70417)
S80-155XM - (AR70414)

Tovel

TS6-44
TS8-44

Jcb

JCB - (AR50690)

Bobcat

1800 - Scat
Trak-low emission (AR70419)

Case IH

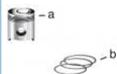
C70 - Tractor

Massey Ferguson

3340
4233



- 1) Engine O/H Kit**
- › POK474 Std.
 - › POK475 0.50
 - › POK476 1.00
- 2) Basic Engine Kit**
- › PBK474 Std.
 - › PBK475 0.50
 - › PBK476 1.00
 - › SPEC SHEET - 1004.42



- a) Piston**
- › PU5LP0058 Std.
 - › PU5LP0058B 0.50
 - › PU5LP0058D 1.00
- 4 Per Engine**
- b) Ring Set**
- › P4181A045 Std.
 - › P4181A046 0.50
 - › P4181A047 1.00



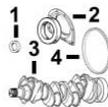
- Main Bearing Set**
- › P81558 Std.
 - › P81558A 0.010
 - › P81558B 0.020
 - › P81558C 0.030
- Set of 5 Pairs**



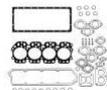
- Con Rod Bearing Set**
- › P85042 Std.
 - › P85042A 0.010
 - › P85042B 0.020
 - › P85042C 0.030
- Set of 4 Pairs**



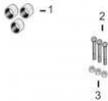
- Thrust Washer Set**
- › P31137551/61 Std.
 - › P31137312/22 0.007
- Set of 2 Pairs**



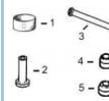
- 1) Front Seal**
- › P2418F436
- 2) Rear Seal**
- › P2418F475
 - › P2418F701
- 3) Crankshaft Kit**
- › PZZ90202
- 4) Ring Gear**
- › P0410236 115T
 - › P31162121 126T



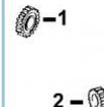
- 1) Top Gasket Set**
- › PU5LT0317
- 2) Bottom Gasket**
- › PU5LB1171
- 3) Valve Cover Gsk**
- › P3681A049
- 4) Head Gasket**
- › P3681E042
- 5) Gasket, Manifold**
- › P3688C042



- 1) Bush, Con Rod**
- › P3112E011 x4
- 2) Bolt, Con Rod**
- › P32762144 x8
- 3) Nut, Con Rod**
- › P33221328 x8



- 1) Bushing, Cam**
- › P31134132 x1
- 2) Tappet**
- › P31434163
- 3) Pushrod**
- › P31434307
- 4) Seal, Exh Valve**
- › P2418M505 x4
- 5) Seal, Intk Valve**
- › P2418M506 x4



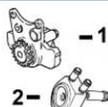
- 1) Crankshaft Gear**
- › P31171681
- 2) Camshaft Gear**
- › P3117L023

- Valve Train Kit**
- › PVTK422

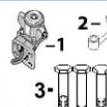
- 1) Valve, Intake**
- › P3142H041 x4
- 2) Valve, Exhaust**
- › P3142D061 x4
- 3) Guide, Valve**
- a) Intake b) Exhaust**
- › 3a) P3313A012 x4
 - › 3b) P3318A705 x4

- 4) Spring, Valve**
- › P3174P412 x8

- 5) Lock, Valve**
- › P3142W004 x16



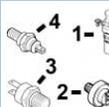
- 1) Oil Pump**
- › P4132F051
 - › P4132F041
- 2) Oil Cooler**
- › P2486A218
 - › P2486A219
 - › P2486A222
 - › P2486A241
 - › P2486A991



- 1) Lift Pump**
- › P2641A067
- 2) Piston Cooling Nozzle**
- › P3861A027
- 3) Cylinder Head Bolt**
- › P32166221 x4



- 1) Water Pump**
- › PU5MW0192
 - › PU5MW0195
- 2) Thermostat**
- › P2485C036
- 3) Water Pump Gasket**
- › P3687Y016



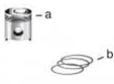
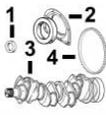
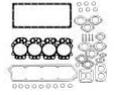
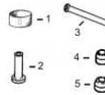
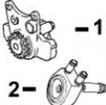
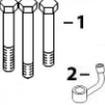
- 1) Heater Plug**
- › P2666108
- (Bayonet Fitting)**
- 2) Oil Pressure Switch**
- › P2848062
- 3) Temp Sensor**
- › P2848A121
- 4) Water Temp Sensor**
- › P2848A123



- Fuel Lines**
- › 1) P3525A101
 - › 2) P3525A102
 - › 3) P3525A103
 - › 4) P3525A104

(1): To ESN U176356H.
(3): PZZ90202 To ESN U284277J.
(5): Check application for proper usage.
(7): Use on engines without a Balancer Unit.

(2): From ESN U176357H.
(4): May use Bottom Gasket Set PU5LB1310.
(6): Use for AR builds only. check your application for proper use.
(8): Use on engines with a Balancer Unit.

<p>Engine Series: 1000</p> <p>Engine Model: 1004.42 (AR, AS)</p> <p>Engine Desc: NATURALLY ASPIRATED</p> <p>Engine Data: Lip Seal Sleeveless Engines</p> <p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 4.055 in / 103.00 mm</p>	 <p>1) Engine O/H Kit</p> <ul style="list-style-type: none"> › POK524 Std. › POK525 0.50 › POK526 1.00 <p>2) Basic Engine Kit</p> <ul style="list-style-type: none"> › PBK524 Std. › PBK525 0.50 › PBK526 1.00 › SPEC SHEET - 1004.42 	 <p>a) Piston</p> <ul style="list-style-type: none"> › PU5LP0058 Std. › PU5LP0058B 0.50 › PU5LP0058D 1.00 <p>4 Per Engine</p> <p>b) Ring Set</p> <ul style="list-style-type: none"> › P4181A045 Std. › P4181A046 0.50 › P4181A047 1.00 	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › P81558 Std. › P81558A 0.010 › P81558B 0.020 › P81558C 0.030 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › PU5ME0013 Std. › PU5ME0013A 0.010 › PU5ME0013B 0.020 › PU5ME0013C 0.030 <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set</p> <ul style="list-style-type: none"> › P31137551/61 Std. › P31137312/22 0.007 <p>Set of 2 Pairs</p>
<p>Tovel</p> <p>TS6-44 TS8-44</p> <p>Hyster</p> <p>S80-155XL/XM - (AR70414) h80-155XL/XM - (AR70417)</p>	 <p>1) Front Seal</p> <ul style="list-style-type: none"> › P2418F436 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › P2418F475 › P2418F701 <p>3) Crankshaft Kit</p> <ul style="list-style-type: none"> › PZZ90226 <p>4) Ring Gear</p> <ul style="list-style-type: none"> › P0410236 115T › P31162121 126T 	 <p>1) Top Gasket Set</p> <ul style="list-style-type: none"> › PU5LT0317 <p>2) Bottom Gasket</p> <ul style="list-style-type: none"> › PU5LB1171 <p>3) Valve Cover Gsk</p> <ul style="list-style-type: none"> › P3681A049 <p>4) Head Gasket</p> <ul style="list-style-type: none"> › P3681E042 <p>5) Gasket, Manifold</p> <ul style="list-style-type: none"> › P3688C042 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> › P3112A005 x4 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › P3212V003 x8 <p>3) Con Rod</p> <ul style="list-style-type: none"> › P4115C314 	 <p>1) Bushing, Cam</p> <ul style="list-style-type: none"> › P31134132 x1 <p>2) Tappet</p> <ul style="list-style-type: none"> › P31434163 <p>3) Pushrod</p> <ul style="list-style-type: none"> › P31434307 <p>4) Seal, Exh Valve</p> <ul style="list-style-type: none"> › P2418M505 x4 <p>5) Seal, Intk Valve</p> <ul style="list-style-type: none"> › P2418M506 x4 	 <p>1) Crankshaft Gear</p> <ul style="list-style-type: none"> › P31171681 <p>2) Camshaft Gear</p> <ul style="list-style-type: none"> › P3117L023
<p>Jcb</p> <p>(AR50690)</p> <p>Bobcat</p> <p>1800 - Scat Trak-low emission (AR70419)</p>	<p>Valve Train Kit</p> <ul style="list-style-type: none"> › PVTK422 	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › P3142H041 x4 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › P3142D061 x4 	<p>3) Guide, Valve</p> <p>a) Intake b) Exhaust</p> <ul style="list-style-type: none"> › 3a) P3313A012 x4 › 3b) P3318A705 x4 	<p>4) Spring, Valve</p> <ul style="list-style-type: none"> › P3174P412 x8 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › P3142W004 x16
<p>Landini</p> <p>GLOBUS 75 - Tractor</p>	 <p>1) Oil Pump</p> <ul style="list-style-type: none"> › P4132F051 <p>2) Oil Cooler</p> <ul style="list-style-type: none"> › P2486A218 › P2486A219 › P2486A222 › P2486A241 › P2486A991 	 <p>Lift Pump</p> <ul style="list-style-type: none"> › P2641A067 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › PU5MW0192 › PU5MW0195 <p>2) Thermostat</p> <ul style="list-style-type: none"> › P2485C036 <p>3) Water Pump Gasket</p> <ul style="list-style-type: none"> › P3687Y016 	 <p>1) Heater Plug</p> <ul style="list-style-type: none"> › P2666108 <p>(Bayonet Fitting)</p> <p>2) Oil Pressure Switch</p> <ul style="list-style-type: none"> › P2848062 <p>3) Temp Sensor</p> <ul style="list-style-type: none"> › P2848A121 <p>4) Water Temp Sensor</p> <ul style="list-style-type: none"> › P2848A123 	 <p>1) Cylinder Head Bolt</p> <ul style="list-style-type: none"> › P32166221 x4 <p>2) Piston Cooling Nozzle</p> <ul style="list-style-type: none"> › P3861A027

(1): To ESN U176356H.

(3): PZZ90226 From ESN U284278J.

(5): Check application for proper usage.

(7): Use on engines without a Balancer Unit.

(2): From ESN U176357H.

(4): May use Bottom Gasket Set PU5LB1310.

(6): Use for AR builds only. check your application for proper use.

Engine Series:
1000

Engine Model:
1006.60 (YA)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm



- 1) **Engine O/H Kit**
‣ POK690
- 2) **Basic Engine Kit**
‣ PBK690
‣ SPEC SHEET - 1006.60



- Piston-Liner Kit**
‣ PCK142
- Consist of:**
‣ a) PMXF0015
‣ b) P4181A019
‣ c) P3135X042



- Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030



- Con Rod Bearing Set**
‣ P85043 Std.
‣ P85043A 0.010
‣ P85043B 0.020
‣ P85043C 0.030



- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007

1

6 Per Engine

Set of 7 Pairs

Set of 6 Pairs

Hyster-Forklifts
H165-280 - (YA70217)
H165-360XL - (YA70337)

Jcb
(YA50214) - Wheel Loader (YA50339) - Industrial

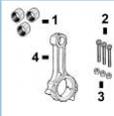
Massey Ferguson
396 - (YA31257)
399 - (YA31240)
4260
5320



- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
‣ P2418F701
- 3) **Crankshaft Kit**
‣ PZZ90087
- 4) **Ring Gear**
‣ P31162121 126T
- 5) **Crankshaft Gear**
‣ P3117C061



- 1) **Top Gasket Set**
‣ PU5LT1179
- 2) **Bottom Gasket**
‣ PU5LB0153
- 3) **Head Gasket**
‣ P3681H205
- 4) **Valve Cover Gasket**
‣ P3681C001
‣ P3681C003



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Bushing, Cam**
‣ P31134132 x1
- 2) **Camshaft**
‣ P31416307
- 3) **Tappet**
‣ P31434163
- 4) **Pushrod**
‣ P31434307

3

4

6

5

- Valve Train Kit**
‣ PVTK612

- 1) **Valve, Intake**
‣ P3142L051 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

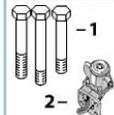
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744133 x12
‣ 4b) P31745122 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



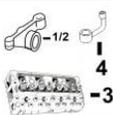
- 1) **Oil Pump**
‣ P4132F043
- 2) **Oil Cooler Donut**
‣ P2486A219
‣ P2486A241



- 1) **Cylinder Head Bolt**
‣ P32166219 x12
‣ P32166221 x18
‣ P32166222 x2
- 2) **Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ PU5MW0092
‣ PU5MW0159
- 2) **Thermostat**
‣ P2485613 x2
- 3) **Water Pump Gasket**
‣ P3687Y016



- 1) **Rocker Arm LH**
‣ P41151483
- 2) **Rocker Arm RH**
‣ P41151484
- 3) **Cylinder Head**
‣ PZZ80299
‣ PZZ80225UF
- 4) **Piston Cooling Nozzle**
‣ P3861A027



- 1) **Heater Plug**
‣ P2666108
- 2) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062
- 3) **Temp Sensor**
‣ P2848A121

5

5

5

5

5

5

5

(1): Flanged, Semi Finished Liner available, P3135X041

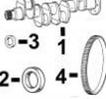
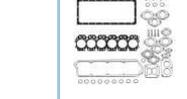
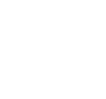
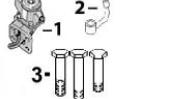
(3): To ESN U764751H.

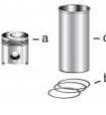
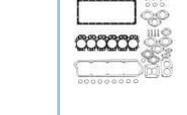
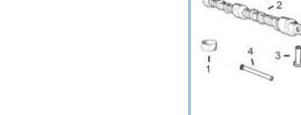
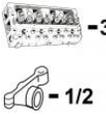
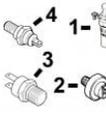
(5): Check build list for proper application.

(2): Use Single Valve Spring, 3174P405 for low speed applications, not available from Maxiforce.

(4): From ESN U764752H.

(6): Included in Top Gasket Set PU5LT1179

<p>Engine Series: 1000</p> <p>Engine Model: 1006.60T (YB)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Lip Seal To ESN 557976X</p>	 <p>1) Engine O/H Kit ‣ POK691</p> <p>2) Basic Engine Kit ‣ PBK691 ‣ SPEC SHEET - 1006.60</p>	 <p>Piston-Liner Kit ‣ PCK275</p> <p>Consist of: ‣ a) PMXF0014 ‣ b) P4181A026 ‣ c) P3135X042</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ PU5MB0030 Std. ‣ PU5MB0030A 0.010 ‣ PU5MB0030B 0.020 ‣ PU5MB0030C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0003 Std. ‣ PU5ME0003A 0.010 ‣ PU5ME0003B 0.020 ‣ PU5ME0003C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 6 Cyl</p> <p>Engine Dimensions: Bore: 3.937 in / 100.00 mm</p> <p>Build List YD35099</p> <p>Massey Ferguson 3625 - (YB31245) 3645 3655 399 6190 640 660 680</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90085</p> <p>4) Ring Gear ‣ P31162121 126T</p> <p>5) Crankshaft Gear ‣ P3117C061</p>	 <p>1) Top Gasket Set ‣ PU5LT1179</p> <p>2) Bottom Gasket ‣ PU5LB0153</p> <p>3) Head Gasket ‣ P3681H205</p> <p>4) Valve Cover Gasket ‣ P3681C001 ‣ P3681C003</p>	 <p>1) Bush, Con Rod ‣ P31134131 x6</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31416307</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	
<p>Perkins (YB30127) - Power Units (YB30650) - Power Units</p> <p>Dingxin-Gensets DP88S DP120S DP132S</p> <p>Jcb 435 - Front Loader(YB50292)</p> <p>Toval TS18-44</p>	<p>Valve Train Kit ‣ PVTK613</p>	<p>1) Valve, Intake ‣ P3142L071 x6</p> <p>2) Valve, Exhaust ‣ P3142A051 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x6 ‣ 3b) P3343J002 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744133 x12 ‣ 4b) P31745122 x12</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>
<p>Oil Pump ‣ P4132F057</p> <p>Oil Cooler ‣ P2486A992 ‣ P2486A993</p>	 <p>1) Oil Pump ‣ P4132F057</p> <p>2) Oil Cooler ‣ P2486A992 ‣ P2486A993</p>	 <p>1) Lift Pump ‣ P2641729</p> <p>2) Turbocharger ‣ P2674A080</p> <p>3) Cylinder Head Bolt ‣ P32166219 x12 ‣ P32166221 x18 ‣ P32166222 x2</p>	 <p>1) Water Pump ‣ PU5MW0092 ‣ PU5MW0159</p> <p>2) Water Pump Gasket ‣ P3687Y016</p> <p>3) Turbocharger ‣ P2674A110</p> <p>4) Thermostat ‣ P2485613 x2</p>	 <p>1) Rocker Arm LH ‣ P41151483</p> <p>2) Rocker Arm RH ‣ P41151484</p> <p>3) Cylinder Head ‣ PZZ80299</p> <p>4) Piston Cooling Nozzle ‣ P3861A027</p>	 <p>1) Heater Plug ‣ P2666108</p> <p>(Bayonet Fitting)</p> <p>2) Oil Pressure Switch ‣ P2848062</p> <p>3) Temp Sensor ‣ P2848A121</p> <p>4) Water Temp Sensor ‣ P2848A123</p>
<p>CLAAS Dominator 88 - Combine Dominator 98 - Combine</p>	<p>(1): Check with Build List. (2): 45 Degree Angle. (3): Flanged, Semi Finished Liner available, P3135X041 (4): Applies to YB31245 Only. (5): Check build list for proper application. (6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately. (7): Included in Top Gasket Set PU5LT1179</p>				

<p>Engine Series: 1000</p> <p>Engine Model: 1006.60T (YB)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Lip Seal From ESN 557977X</p>	 <p>1) Engine O/H Kit ‣ POK692</p> <p>2) Basic Engine Kit ‣ PBK692 ‣ SPEC SHEET - 1006.60</p>	 <p>Piston-Liner Kit ‣ PCK275</p> <p>Consist of: ‣ a) PMXF0014 ‣ b) P4181A026 ‣ c) P3135X042 3</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ PU5MB0030 Std. ‣ PU5MB0030A 0.010 ‣ PU5MB0030B 0.020 ‣ PU5MB0030C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0003 Std. ‣ PU5ME0003A 0.010 ‣ PU5ME0003B 0.020 ‣ PU5ME0003C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 6 Cyl</p> <p>Engine Dimensions: Bore: 3.937 in / 100.00 mm</p> <p>Please see page 520 for a complete list of equipment models.</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475 ‣ P2418F701</p> <p>3) Crankshaft Kit ‣ PZZ90085</p> <p>4) Ring Gear ‣ P31162121 126T</p> <p>5) Crankshaft Gear ‣ P3117C061</p>	 <p>1) Top Gasket Set ‣ PU5LT1179</p> <p>2) Bottom Gasket ‣ PU5LB0153 4</p> <p>3) Head Gasket ‣ P3681H205 5</p> <p>4) Valve Cover Gasket ‣ P3681C001 9 ‣ P3681C003 7</p>	 <p>1) Bush, Con Rod ‣ P31134131 x6 8</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p> <p>4) Con Rod ‣ PZZ90013 1</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31416307</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	
<p>Valve Train Kit ‣ PVTK614</p>	<p>1) Valve, Intake ‣ P3142L072 x6 2</p> <p>2) Valve, Exhaust ‣ P3142A051 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x6 ‣ 3b) P3343J002 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744133 x12 ‣ 4b) P31745122 x12</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>	
 <p>1) Oil Pump ‣ P4132F057</p> <p>2) Oil Cooler ‣ P2486A992 6 ‣ P2486A993 7</p>	 <p>1) Lift Pump ‣ P2641729</p> <p>2) Turbocharger ‣ P2674A080 7</p> <p>3) Cylinder Head Bolt ‣ P32166219 x12 ‣ P32166221 x18 ‣ P32166222 x2</p>	 <p>1) Water Pump ‣ PU5MW0092 ‣ PU5MW0159 7</p> <p>2) Water Pump Gasket ‣ P3687Y016 7</p> <p>3) Turbocharger ‣ P2674A110 7</p> <p>4) Thermostat ‣ P2485613 x2</p>	 <p>1) Rocker Arm LH ‣ P41151483</p> <p>2) Rocker Arm RH ‣ P41151484</p> <p>3) Cylinder Head ‣ PZZ80299 7</p>	 <p>1) Heater Plug ‣ P2666108</p> <p>2) Oil Pressure Switch (Bayonet Fitting) ‣ P2848062 7</p> <p>3) Temp Sensor ‣ P2848A121 7</p> <p>4) Water Temp Sensor ‣ P2848A123 7</p>	
<p>(1): Check with Build List. (2): 30 Degree Angle. (3): Flanged, Semi Finished Liner available, P3135X041 (4): To ESN U764751H. (5): From ESN U764752H. (6): Applies to YB31245 Only. (7): Check build list for proper application. (8): On applications using Con Rod 4115C321, order bushing P3112A006, order separately. (9): Included in Top Gasket Set PU5LT1179</p>					

Engine Series:
1000

Engine Model:
1006.60T (YE, YD)

Engine Desc:
Grade L

Engine Data:
TURBOCHARGED
INTERCOOLED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Piston height: 2.762 in / 127.00 mm

Build List
YB50604

Fg Wilson

P96SP1
P150-1
P150E
P150P1
P165-1
P165-2
P165E1
P188E1
XP110E
XP135
XP150E
XP150P1

Tovel
TS18-44



- 1) **Engine O/H Kit**
‣ POK696
- 2) **Basic Engine Kit**
‣ PBK696
‣ SPEC SHEET - 1006.60



- 1) **Piston-Liner Kit**
‣ PCK624
 - Consist of:**
 - a) PU5LF0024
 - b) P4181A026
 - c) P3135X062
- 6 Per Engine**



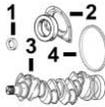
- 1) **Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030
- Set of 7 Pairs**



- 1) **Con Rod Bearing Set**
‣ PU5ME0003 Std.
‣ PU5ME0003A 0.010
‣ PU5ME0003B 0.020
‣ PU5ME0003C 0.030
- Set of 6 Pairs**



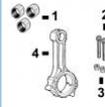
- 1) **Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



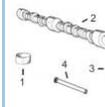
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
‣ P2418F701
- 3) **Crankshaft Kit**
‣ PZZ90085
- 4) **Ring Gear**
‣ P31162121 126T
- 5) **Crankshaft Gear**
‣ P3117C061



- 1) **Top Gasket Set**
‣ PU5LT1179
- 2) **Bottom Gasket**
‣ PU5LB0153
- 3) **Head Gasket**
‣ P3681H205
- 4) **Valve Cover Gasket**
‣ P3681C001
‣ P3681C003



- 1) **Bush, Con Rod**
‣ P3112E005 x6
- 2) **Bolt, Con Rod**
‣ P32186142 x12
- 3) **Nut, Con Rod**
‣ P3246A001 x12
- 4) **Con Rod**
‣ PZZ90146



- 1) **Bushing, Cam**
‣ P31134132 x1
- 2) **Camshaft**
‣ P31416307
- 3) **Tappet**
‣ P31434163
- 4) **Pushrod**
‣ P31434307

- 1) **Valve Train Kit**
‣ PVTK614

- 1) **Valve, Intake**
‣ P3142L072 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744133 x12
‣ 4b) P31745122 x12

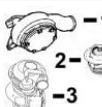
- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



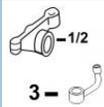
- 1) **Oil Pump**
‣ P4132F057
- 2) **Oil Cooler**
‣ P2486A993



- 1) **Cylinder Head Bolt**
‣ P32166219 x12
‣ P32166221 x18
‣ P32166222 x2
- 2) **Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ PU5MW0092
‣ PU5MW0159
- 2) **Thermostat**
‣ P2485613 x2
- 3) **Turbocharger**
‣ P2674A335



- 1) **Rocker Arm LH**
‣ P41151483
- 2) **Rocker Arm RH**
‣ P41151484
- 3) **Piston Cooling Nozzle**
‣ P3861A027



- 1) **Heater Plug**
‣ P2666108
- 2) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062
- 3) **Temp Sensor**
‣ P2848A121
- 4) **Water Temp Sensor**
‣ P2848A123

- (1): Use with Con Rod ZZ90146.
- (3): Flanged, Semi Finished Liner available, P3135X063
- (5): From ESN U764752H.
- (7): Check build number for proper application.
- (9): Included in Top Gasket Set PU5LT1179

- (2): 30 Degree Angle.
- (4): To ESN U764751H.
- (6): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.
- (8): Use on YD builds only. Check build number for proper application.

PERKINS 1006.60T GRADE L FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1006.60T (YE, YD)

Engine Desc:
Grade L

Engine Data:
TURBOCHARGED
INTERCOOLED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in / 100.00 mm
Stroke: 5.00 in / 127.00 mm
Piston height: 2.762 in / 127.00 mm

Build List
YB50604

Fg Wilson

XP110E
P96SP1
P150-1
P150E
P150P1
XP135
XP150E
XP150P1
P165-1
P165-2
P165E1
P188E1

Tovel
TS18-44



- 1) **Engine O/H Kit**
‣ POK698
- 2) **Basic Engine Kit**
‣ PBK698
‣ SPEC SHEET - 1006.60



- 1) **Piston-Liner Kit**
‣ PCK624
 - Consist of:**
 - a) PU5LF0024
 - b) P4181A026
 - c) P3135X062
- 6 Per Engine**



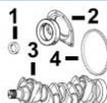
- 1) **Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030
- Set of 7 Pairs**



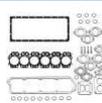
- 1) **Con Rod Bearing Set**
‣ PU5ME0025 Std.
‣ PU5ME0025A 0.010
‣ PU5ME0025B 0.020
‣ PU5ME0025C 0.030
- Set of 6 Pairs**



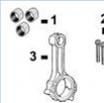
- 1) **Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



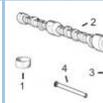
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
‣ P2418F701
- 3) **Crankshaft Kit**
‣ PZZ90229
- 4) **Ring Gear**
‣ P31162121 126T
- 5) **Crankshaft Gear**
‣ P3117C061



- 1) **Top Gasket Set**
‣ PU5LT1179
- 2) **Bottom Gasket**
‣ PU5LB0153
- 3) **Head Gasket**
‣ P3681H205
- 4) **Valve Cover Gasket**
‣ P3681C001
‣ P3681C003



- 1) **Bush, Con Rod**
‣ P3112A005 x6
- 2) **Bolt, Con Rod**
‣ P3212V003 x12
- 3) **Con Rod**
‣ P4115C314



- 1) **Bushing, Cam**
‣ P31134132 x1
- 2) **Camshaft**
‣ P31416307
- 3) **Tappet**
‣ P31434163
- 4) **Pushrod**
‣ P31434307

Valve Train Kit
‣ PVTK614

- 1) **Valve, Intake**
‣ P3142L072 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744133 x12
‣ 4b) P31745122 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



- 1) **Oil Pump**
‣ P4132F057
- 2) **Oil Cooler**
‣ P2486A993



- 1) **Cylinder Head Bolt**
‣ P32166219 x12
‣ P32166221 x18
‣ P32166222 x2
- 2) **Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ PU5MW0092
‣ PU5MW0159
- 2) **Thermostat**
‣ P2485613 x2
- 3) **Turbocharger**
‣ P2674A335



- 1) **Rocker Arm LH**
‣ P41151483
- 2) **Rocker Arm RH**
‣ P41151484



- 1) **Heater Plug**
‣ P2666108
- 2) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062
- 3) **Temp Sensor**
‣ P2848A121
- 4) **Water Temp Sensor**
‣ P2848A123

(1): Use with Con Rod ZZ90146.

(3): Flanged, Semi Finished Liner available, P3135X063

(5): From ESN U764752H.

(7): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(9): Included in Top Gasket Set PU5LT1179

(2): 30 Degree Angle.

(4): To ESN U764751H.

(6): Check build number for proper application.

(8): Grade J, Color Coded Green.

Engine Series:
1000

Engine Model:
1006.60T (YG,
YH, YJ, YK)

Engine Data:
TURBOCHARGE
or NATURALLY
ASPIRATED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in
/ 100.00 mm

Please see
page 521 for a
complete list of
equipment
models.



- 1) Engine O/H Kit**
 › POK693/45
 › POK693/30
2) Basic Engine Kit
 › PBK693
 › SPEC SHEET -
 1006.60



- Piston-Liner Kit**
 › PCK5762
Consist of:
 › a) PU5LP0057
 › b) P4181A033
 › c) P3135X062
6 Per Engine



- Main Bearing Set**
 › PU5MB0030 Std.
 › PU5MB0030A 0.010
 › PU5MB0030B 0.020
 › PU5MB0030C 0.030
Set of 7 Pairs



- Con Rod Bearing Set**
 › PU5ME0003 Std. **5**
 › PU5ME0003A 0.010
 › PU5ME0003B 0.020
 › PU5ME0003C 0.030
Set of 6 Pairs



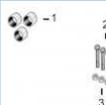
- Thrust Washer Set**
 › P31137551/61 Std.
 › P31137312/22 0.007
Set of 2 Pairs



- 1) Front Seal**
 › P2418F436
2) Rear Seal
 › P2418F475
 › P2418F701
3) Crankshaft Kit
 › PZZ90085
4) Ring Gear
 › P31162121 126T



- 1) Top Gasket Set**
 › PU5LT1300
2) Bottom Gasket
 › PU5LB1301
3) Head Gasket
 › P3681H205
4) Rocker Cover Gasket
 › P3681A051
5) Gasket, Manifold
 › P3688C042



- 1) Bush, Con Rod**
 › P3112E011 x6
2) Bolt, Con Rod
 › P32762144 x12
3) Nut, Con Rod
 › P33221328 x12



- 1) Bushing, Cam**
 › P31134132 x1
2) Tappet
 › P31434163
3) Push Rod
 › P31434307
4) Seal, Exh Valve
 › P2418M505 x6
5) Seal, Intk Valve
 › P2418M506 x6
6) Camshaft
 › P3141F022
7) Cam and Lifter Kit
 › P3141F022KIT

- Valve Train Kit**
 › a) 45 b) 30
 › a) PVTK618
 › b) PVTK619

- 1) Valve, Intake**
 › a) 45 b) 30
 › 1a) P3142D041 x6
 › 1b) P3142L081 x6
2) Valve, Exhaust
 › 2a) P3142D031 x6
 › 2b) P3142D051 x6

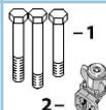
- 3) Guide, Valve**
a) Intake b) Exhaust
 › 3a) P3313A012 x6
 › 3b) P3318A705 x6

- 4) Spring, Valve**
 › P3174P409 x12

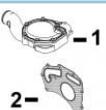
- 5) Lock, Valve**
 › P3142W004 x24



- 1) Oil Pump**
 › P4132F057
2) Oil Cooler
 › P2486A992
 › P2486A993



- 1) Cylinder Head Bolt**
 › P32166219 x12
 › P32166221 x18
 › P32166222 x2
2) Lift Pump
 › P2641729



- 1) Water Pump**
 › PU5MW0192
 › PU5MW0156
3) Water Pump Gasket
 › P3687Y016



- 1) Oil Pressure Switch**
 › P2848062
2) Temp Sensor
 › P2848A121



- 1) Thermostat**
 › P2485C034
 › P2485C036
2) Thermostat Assembly
 › P4133L032
 › P4133L036
3) Piston Cooling Nozzle
 › P3861A027
4) Turbocharger
 › P2674A091

(1): Flanged, Semi Finished Liner available, P3135X063

(3): From ESN U764752H.

(5): Use for YG, and YH builds only. check your application for proper use.

(2): To ESN U764751H.

(4): Check build number for proper application.

(6): Contains P3141F022 x 1 and P31434163 x 12.

PERKINS 1006.60T YG, YH, YK, YJ BUILDS FRACTURED SPLIT ROD

Engine Series:
1000

Engine Model:
1006.60T (YG,
YH, YJ, YK)

Engine Data:
TURBOCHARGED
or NATURALLY
ASPIRATED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.937 in /
100.00 mm

Hyster
H165-360XL -
(YG70403)
H165-360XL -
(YH70393)

**Mc Cormick-
Tractors**

MTX110 -
(YH50918)
MTX125 -
(YH50919)
MTX140 -
(YH50920)
MTX155 -
(YK50921)
MTX170 -
(YJ51192)

Tovel
TS18-44

**Massey
Ferguson**
6180 -
(YH31310)



- 1) Engine O/H Kit**
 › POK600/45
 › POK600/30
2) Basic Engine Kit
 › PBK600
 › SPEC SHEET -
 1006.60



- Piston-Liner Kit**
 › PCK5762
Consist of:
 › a) PU5LP0057
 › b) P4181A033
 › c) P3135X062
6 Per Engine



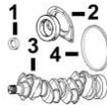
- Main Bearing Set**
 › PU5MB0030 Std.
 › PU5MB0030A 0.010
 › PU5MB0030B 0.020
 › PU5MB0030C 0.030
Set of 7 Pairs



- Con Rod Bearing Set**
 › PU5ME0025 Std.
 › PU5ME0025A 0.010
 › PU5ME0025B 0.020
 › PU5ME0025C 0.030
Set of 6 Pairs



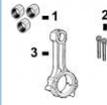
- Thrust Washer Set**
 › P31137551/61 Std.
 › P31137312/22 0.007
Set of 2 Pairs



- 1) Front Seal**
 › P2418F436
2) Rear Seal
 › P2418F475
 › P2418F701
3) Crankshaft Kit
 › PZZ90229
4) Ring Gear
 › P31162121 126T



- 1) Top Gasket Set**
 › PU5LT1300
2) Bottom Gasket
 › PU5LB1301
3) Head Gasket
 › P3681H205
4) Rocker Cover Gasket
 › P3681A051
5) Gasket, Manifold
 › P3688C042



- 1) Bush, Con Rod**
 › P3112A005 x6
2) Bolt, Con Rod
 › P3212V003 x12
3) Con Rod
 › P4115C314



- 1) Bushing, Cam**
 › P31134132 x1
2) Tappet
 › P31434163
3) Push Rod
 › P31434307
4) Seal, Exh Valve
 › P2418M505 x6
5) Seal, Intk Valve
 › P2418M506 x6
6) Camshaft
 › P3141F022
7) Cam and Lifter Kit
 › P3141F022KIT

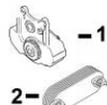
- Valve Train Kit**
 › a) 45 b) 30
 › a) PVTK618
 › b) PVTK619

- 1) Valve, Intake**
 › a) 45 b) 30
 › 1a) P3142D041 x6
 › 1b) P3142L081 x6
2) Valve, Exhaust
 › 2a) P3142D031 x6
 › 2b) P3142D051 x6

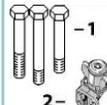
- 3) Guide, Valve**
a) Intake b) Exhaust
 › 3a) P3313A012 x6
 › 3b) P3318A705 x6

- 4) Spring, Valve**
 › P3174P409 x12

- 5) Lock, Valve**
 › P3142W004 x24



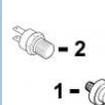
- 1) Oil Pump**
 › P4132F057
2) Oil Cooler
 › P2486A992
 › P2486A993
3) Oil Cooler Donut
 › P2486A241



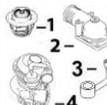
- 1) Cylinder Head Bolt**
 › P32166219 x12
 › P32166221 x18
 › P32166222 x2
2) Lift Pump
 › P2641729



- 1) Water Pump**
 › PU5MW0192
 › PU5MW0156
3) Water Pump Gasket
 › P3687Y016



- 1) Oil Pressure Switch**
 › P2848062
2) Temp Sensor
 › P2848A121



- 1) Thermostat**
 › P2485C034
 › P2485C036
2) Thermostat Assembly
 › P4133L032
 › P4133L036
3) Piston Cooling Nozzle
 › P3861A027
4) Turbocharger
 › P2674A091

- (1): Flanged, Semi Finished Liner available, P3135X063
 (3): From ESN U764752H.
 (5): Grade J, Color Coded Green
 (7): Contains P3141F022 x 1 and P31434163 x 12.

- (2): To ESN U764751H.
 (4): Check build number for proper application.
 (6): Use for YG, and YH builds only. check your application for proper use.

Engine Series:
1100

Engine Model:
1103C-33 (DC)
/ 1103B-33
(DF) / 1103A-
33 (DJ) /
1103D - 33
(XK)

Engine Desc:
Tier 2

Engine Data:
NATURALLY
ASPIRATED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
201 in3 / 3.3 Lt

Please see
page 522 for a
complete list of
equipment
models.



1) Engine O/H Kit

- POK320 Std.
- POK321 0.50
- POK322 1.00

2) Basic Engine Kit

- PBK320 Std.
- PBK321 0.50
- PBK322 1.00
- SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- P4115P011 Std.
- P4115P012 0.50
- P4115P013 1.00

3 Per Engine



Main Bearing Set

- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs



Thrust Washer Set

- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- P2418F436

2) Rear Seal

- P2418F704

3) Crankshaft Kit

- P4181V017

4) Ring Gear

- P0410236 115T
- P31162121 126T



1) Top Gasket Set

- PU5LT0355

2) Bottom Gasket

- PU5LB0379

3) Head Gasket

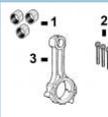
- P3681E049

4) Valve Cover Gsk

- P3681A057

5) Oil Pan Gasket

- P3681K038



1) Bush, Con Rod

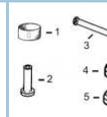
- P3112A005 x3

2) Bolt, Con Rod

- P3212V003 x6

3) Con Rod Kit

- P4115C314



1) Bushing, Cam

- P3112D071 x1

2) Tappet

- P31434163

3) Push Rod

- P31434307

4) Seal, Exh Valve

- P2418M517 x3

5) Seal, Intk Valve

- P2418M519 x3

Valve Train Kit

- PVTK307

1) Valve, Intake

- P3142H071 x3

2) Valve, Exhaust

- P3142A151 x3

**3) Guide, Valve
(Intake & Exhaust)**

- P3313A012 x6

4) Spring, Valve

- P3174A016 x6

5) Lock, Valve

- P3142W004 x12



Oil Pump

- P4132F071 (3) (1)
- P413F072 (3) (1)



1) Lift Pump

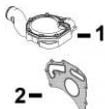
- P2641A203 (3) (3)
- PULPK0040 (3) (3)

2) Injector

- P2645K016 (3) (3)

3) Pre-Fuel Filter Assy

- P130306380



1) Water Pump

- PU5MW0197 (3) (3)

2) Water Pump Gasket

- P3682A011 (3) (3)

3) Thermostat

- P4133L503 (3) (3)
- P4133L507 (3) (3)
- P4133L508 (3) (3)



Repair Sleeve

- 105RS

2) Head Bolts

- P3218A011 x5
- P3218A012 x3



1) Glowplug

- P2666A016 x3

2) Oil Pressure Switch

- 2a) P2848A071 (3) (3)
- 2b) P2848062 (3) (3)

3) Water Temp Sensor

- P2848A123 (3) (3)
- P2848A126 (3) (3)
- P2848A129 (3) (3)

(1): Not to be used on engines with balancer units.
(3): Check application for proper usage.

(2): Grade J, Color Coded Green.
(4): Do Not Used with Build DF.

PERKINS 1103C (DC) (XK) BUILDS

Engine Series:
1100

Engine Model:
1103C - 33
(DC) / 1103D -
33 (XK)

Engine Desc:
Tier 2

Engine Data:
NATURALLY
ASPIRATED

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in
/ 105.00 mm
Stroke: 5.00 in
/ 127.00 mm
Displacement:
201 in³ / 3.3 Lt

Please see
page 523 for a
complete list of
equipment
models.



1) Engine O/H Kit

- › POK331 Std.
- › POK332 0.50
- › POK333 1.00

2) Basic Engine Kit

- › PBK331 Std.
- › PBK332 0.50
- › PBK333 1.00
- › SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- › P4115P011 Std.
 - › P4115P012 0.50
 - › P4115P013 1.00
- 3 Per Engine**



Main Bearing Set

- › PU5MB0019 Std.
- › PU5MB0019A 0.010
- › PU5MB0019B 0.020
- › PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0018 Std.
- › PU5ME0018A 0.010
- › PU5ME0018B 0.020
- › PU5ME0018C 0.030

Set of 3 Pairs

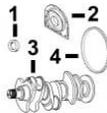


Thrust Washer Set

- › P31137551/61 Std.
 - › P31137312/22 0.007
- Set of 2 Pairs**

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

- › P4181V017

4) Ring Gear

- › P0410236 115T
- › P31162121 126T



1) Top Gasket Set

- › PU5LT0355

2) Bottom Gasket

- › PU5LB0380

3) Head Gasket

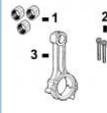
- › P3681E049

4) Valve Cover Gsk

- › P3681A057

5) Oil Pan Gasket

- › P3681K038



1) Bush, Con Rod

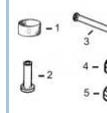
- › P3112A005 x3

2) Bolt, Con Rod

- › P3212V003 x6

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Tappet

- › P31434163

3) Push Rod

- › P31434307

4) Seal, Exh Valve

- › P2418M517 x3

5) Seal, Intk Valve

- › P2418M519 x3

Valve Train Kit

- › PVTK307

1) Valve, Intake

- › P3142H071 x3

2) Valve, Exhaust

- › P3142A151 x3

**3) Guide, Valve
(Intake & Exhaust)**

- › P3313A012 x6

4) Spring, Valve

- › P3174A016 x6

5) Lock, Valve

- › P3142W004 x12



Oil Pump

- › P4132F071 (3) (1)
- › P4132F072 (3) (1)



1) Lift Pump

- › P2641A203 (3) (3)
- › PULPK0040 (3) (3)

2) Injector

- › P2645K016 (3) (3)

3) Pre-Fuel Filter Assy

- › P130306380



1) Water Pump

- › PU5MW0197 (3) (3)

2) Water Pump Gasket

- › P3682A011 (3) (3)

3) Thermostat

- › P4133L503 (3) (3)
- › P4133L507 (3) (3)
- › P4133L508 (3) (3)

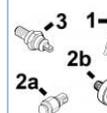


Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x5
- › P3218A012 x3



1) Glow Plug

- › P2666A016 x3

2) Oil Pressure Switch

- › 2a) P2848A071 (3) (3)
- › 2b) P2848062 (3) (3)

3) Water Temp Sensor

- › P2848A123 (3) (3)
- › P2848A126 (3) (3)
- › P2848A129 (3) (3)

(1): Not to be used on engines with balancer units.
(3): Check application for proper usage.

(2): Grade J, Color Coded Green.

Engine Series:
1100

Engine Model:
1103C - 33T (DD) / 1103C - 33TA (DE) / 1103B - 33T (DG) / 1103A - 33T (DK)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
3 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Kz-Power
KZP-G50
KZP-G66

Massey Ferguson
420 - (DD38078)
430 - (DD38311)
3425S - (DD37992)
3425F - (DD37992)
3425GE - (DD37992)
3425GEV - (DD37992)

Godlike
GDP45*S - Genset
GDP60*S - Genset



1) Engine O/H Kit

- POK325 Std.
- POK326 0.50
- POK327 1.00

2) Basic Engine Kit

- PBK325 Std.
- PBK326 0.50
- PBK327 1.00
- SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- P4115P015 Std.
- P4115P016 0.50
- P4115P017 1.00

3 Per Engine



Main Bearing Set

- PU5MB0019 Std.
- PU5MB0019A 0.010
- PU5MB0019B 0.020
- PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- PU5ME0018 Std.
- PU5ME0018A 0.010
- PU5ME0018B 0.020
- PU5ME0018C 0.030

Set of 3 Pairs



Thrust Washer Set

- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



1) Front Seal

- P2418F436

2) Rear Seal

- P2418F704

3) Crankshaft Kit

- P4181V017

4) Ring Gear

- P0410236 115T
- P31162121 126T



1) Top Gasket Set

- PU5LT0355

2) Bottom Gasket

- PU5LB0379

3) Head Gasket

- P3681E049

4) Valve Cover Gsk

- P3681A057

5) Oil Pan Gasket

- P3681K038



1) Bush, Con Rod

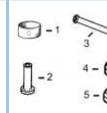
- P3112A005 x3

2) Bolt, Con Rod

- P3212V003 x6

3) Con Rod Kit

- P4115C314



1) Bushing, Cam

- P3112D071 x1

2) Tappet

- P31434163

3) Push Rod

- P31434307

4) Seal, Exh Valve

- P2418M517 x3

5) Seal, Intk Valve

- P2418M519 x3

Valve Train Kit

- PVTK307

1) Valve, Intake

- P3142H071 x3

2) Valve, Exhaust

- P3142A151 x3

3) Guide, Valve (Intake & Exhaust)

- P3313A012 x6

4) Spring, Valve

- P3174A016 x6

5) Lock, Valve

- P3142W004 x12



Oil Pump

- P4132F071 3 1
- P4132F072 3 1



Lift Pump

- P2641A203 3 1
- PULPK0040 3 1



1) Water Pump

- PU5MW0197 3 1

2) Water Pump Gasket

- P3682A011 3 1



Repair Sleeve

- 105RS

2) Head Bolts

- P3218A011 x5
- P3218A012 x3



1) Glow Plug

- P2666A016 x3

2) Oil Pressure Switch

- P2848062 4

3) Water Temp Sensor

- P2848A123 4
- P2848A126 4
- P2848A129 4

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

(4): Check for proper application.

Engine Series:
1100

Engine Model:
1103C - 33T
(DD)

Engine Desc:
TURBOCHARGE

Engine Data:
Tier 2

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in3 / 3.3 Lt

Godlike
GDP45*S - Genset



1) Engine O/H Kit

- › POK334 Std.
- › POK335 0.50
- › POK336 1.00

2) Basic Engine Kit

- › PBK334 Std.
- › PBK335 0.50
- › PBK336 1.00
- › SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- › P4115P015 Std.
- › P4115P016 0.50
- › P4115P017 1.00

3 Per Engine



Main Bearing Set

- › PU5MB0019 Std.
- › PU5MB0019A 0.010
- › PU5MB0019B 0.020
- › PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0018 Std.
- › PU5ME0018A 0.010
- › PU5ME0018B 0.020
- › PU5ME0018C 0.030

Set of 3 Pairs



Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

- › P4181V017

4) Ring Gear

- › P0410236 115T
- › P31162121 126T



1) Top Gasket Set

- › PU5LT0355

2) Bottom Gasket

- › PU5LB0380

3) Head Gasket

- › P3681E049

4) Valve Cover Gsk

- › P3681A057

5) Oil Pan Gasket

- › P3681K038



1) Bush, Con Rod

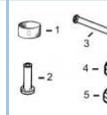
- › P3112A005 x3

2) Bolt, Con Rod

- › P3212V003 x6

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Tappet

- › P31434163

3) Push Rod

- › P31434307

4) Seal, Exh Valve

- › P2418M517 x3

5) Seal, Intk Valve

- › P2418M519 x3

Valve Train Kit

- › PVTK307

1) Valve, Intake

- › P3142H071 x3

2) Valve, Exhaust

- › P3142A151 x3

3) Guide, Valve (Intake & Exhaust)

- › P3313A012 x6

4) Spring, Valve

- › P3174A016 x6

5) Lock, Valve

- › P3142W004 x12



Oil Pump

- › P4132F071 (3) (1)
- › P4132F072 (3) (1)



1) Lift Pump

- › P2641A203 (3)
- › PULPK0040 (3)

2) Pre-Fuel Filter Assy

- › P130306380



1) Water Pump

- › PU5MW0197

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › P4133L503 (3)
- › P4133L507 (3)
- › P4133L508 (3)



Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x5
- › P3218A012 x3



1) Glow Plug

- › P2666A016 x3

2) Oil Pressure Switch

- › P2848062 (3)

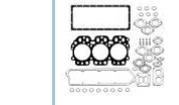
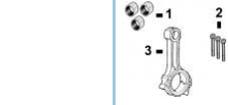
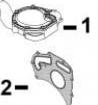
3) Water Temp Sensor

- › P2848A123 (3)
- › P2848A126 (3)
- › P2848A129 (3)

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

<p>Engine Series: 1100</p> <p>Engine Model: 1103C - 33T (DD) / 1103A - 33T (DK)</p> <p>Engine Data: TURBOCHARGED Tier 2</p> <p>Engine Info: 3 Cyl</p> <p>Engine Dimensions: Bore: 4.133 in / 105.00 mm Stroke: 5.00 in / 127.00 mm Displacement: 201 in3/ 3.3 Lt</p>	 <p>1) Engine O/H Kit</p> <ul style="list-style-type: none"> › POK340 Std. › POK341 0.50 › POK342 1.00 <p>2) Basic Engine Kit</p> <ul style="list-style-type: none"> › PBK340 Std. › PBK341 0.50 › PBK342 1.00 › SPEC SHEET - 1103; 1104 ABC 	 <p>Piston & Ring Kit</p> <ul style="list-style-type: none"> › P4115P025 Std. › P4115P026 0.50 › P4115P027 1.00 <p>3 Per Engine</p>	 <p>Main Bearing Set</p> <ul style="list-style-type: none"> › PU5MB0019 Std. › PU5MB0019A 0.010 › PU5MB0019B 0.020 › PU5MB0019C 0.030 <p>Set of 4 Pairs</p>	 <p>Con Rod Bearing Set</p> <ul style="list-style-type: none"> › PU5ME0018 Std. › PU5ME0018A 0.010 › PU5ME0018B 0.020 › PU5ME0018C 0.030 <p>Set of 3 Pairs</p>	 <p>Thrust Washer Set</p> <ul style="list-style-type: none"> › P31137551/61 Std. › P31137312/22 0.007 <p>Set of 2 Pairs</p>
<p>Please see page 524 for a complete list of equipment models.</p>	 <p>1) Front Seal</p> <ul style="list-style-type: none"> › P2418F436 <p>2) Rear Seal</p> <ul style="list-style-type: none"> › P2418F704 <p>3) Crankshaft Kit</p> <ul style="list-style-type: none"> › P4181V017 <p>4) Ring Gear</p> <ul style="list-style-type: none"> › P0410236 115T › P31162121 126T 	 <p>1) Top Gasket Set</p> <ul style="list-style-type: none"> › PU5LT0355 <p>2) Bottom Gasket</p> <ul style="list-style-type: none"> › PU5LB0379 <p>3) Head Gasket</p> <ul style="list-style-type: none"> › P3681E049 <p>4) Valve Cover Gsk</p> <ul style="list-style-type: none"> › P3681A057 <p>5) Oil Pan Gasket</p> <ul style="list-style-type: none"> › P3681K038 	 <p>1) Bush, Con Rod</p> <ul style="list-style-type: none"> › P3112A005 x3 <p>2) Bolt, Con Rod</p> <ul style="list-style-type: none"> › P3212V003 x6 <p>3) Con Rod Kit</p> <ul style="list-style-type: none"> › P4115C314 	 <p>1) Bushing, Cam</p> <ul style="list-style-type: none"> › P3112D071 x1 <p>2) Tappet</p> <ul style="list-style-type: none"> › P31434163 <p>3) Push Rod</p> <ul style="list-style-type: none"> › P31434307 <p>4) Seal, Exh Valve</p> <ul style="list-style-type: none"> › P2418M517 x3 <p>5) Seal, Intk Valve</p> <ul style="list-style-type: none"> › P2418M519 x3 	<p>1) Piston Kit:</p> <ul style="list-style-type: none"> 1) 1 x P3135M121 Piston Std, 1 x <u>PUPRK0002</u> Ring Set Std. 2) 1 x P3135M122 Piston 0.50 mm, 1 x <u>PUPRK0002B</u> Ring Set 0.50 mm. 3) 1 x P3135M123 Piston 1.00 mm, 1 x <u>PUPRK0002D</u> Ring Set 1.00 mm.
<p>Valve Train Kit</p> <ul style="list-style-type: none"> › PVTK307 	<p>1) Valve, Intake</p> <ul style="list-style-type: none"> › P3142H071 x3 <p>2) Valve, Exhaust</p> <ul style="list-style-type: none"> › P3142A151 x3 	<p>3) Guide, Valve (Intake & Exhaust)</p> <ul style="list-style-type: none"> › P3313A012 x6 	<p>4) Spring, Valve</p> <ul style="list-style-type: none"> › P3174A016 x6 	<p>5) Lock, Valve</p> <ul style="list-style-type: none"> › P3142W004 x12 	
 <p>Oil Pump</p> <ul style="list-style-type: none"> › P4132F071 3 1 › P4132F072 3 1 	 <p>1) Lift Pump</p> <ul style="list-style-type: none"> › P2641A203 3 › PULPK0040 3 <p>2) Pre-Fuel Filter Assy</p> <ul style="list-style-type: none"> › P130306380 	 <p>1) Water Pump</p> <ul style="list-style-type: none"> › PU5MW0197 <p>2) Water Pump Gasket</p> <ul style="list-style-type: none"> › P3682A011 <p>3) Thermostat</p> <ul style="list-style-type: none"> › P4133L503 3 › P4133L507 3 › P4133L508 3 	 <p>1) Repair Sleeve</p> <ul style="list-style-type: none"> › 105RS <p>2) Head Bolts</p> <ul style="list-style-type: none"> › P3218A011 x5 › P3218A012 x3 <p>3) Turbocharger</p> <ul style="list-style-type: none"> › P2674A423 3 › P2674A421 3 	 <p>1) Glow Plug</p> <ul style="list-style-type: none"> › P2666A016 x3 <p>2) Oil Pressure Switch</p> <ul style="list-style-type: none"> › P2848062 3 <p>3) Water Temp Sensor</p> <ul style="list-style-type: none"> › P2848A123 3 › P2848A126 3 › P2848A129 3 	

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

Engine Series:
1100D

Engine Model:
1103D-33T (XL) / 1103D-33TA (XM)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
3 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in³ / 3.3 Lt



1) Engine O/H Kit

- › POK343 Std.
- › POK344 0.50
- › POK345 1.00

2) Basic Engine Kit

- › PBK343 Std.
- › PBK344 0.50
- › PBK345 1.00
- › SPEC SHEET - 1103D-33T



Piston & Ring Kit

- › PU5PR0064 Std.
- › PU5PR0064B 0.50
- › PU5PR0064D 1.00

3 Per Engine



Main Bearing Set

- › PU5MB0019 Std.
- › PU5MB0019A 0.010
- › PU5MB0019B 0.020
- › PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0018 Std.
- › PU5ME0018A 0.010
- › PU5ME0018B 0.020
- › PU5ME0018C 0.030

Set of 3 Pairs



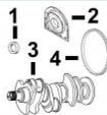
Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M171 Piston Std, 1 x PUPRK0005 Ring Set Std.
- 2) 1 x P3135M172 Piston 0.50 mm, 1 x PUPRK0005B Ring Set 0.50 mm.
- 3) 1 x P3135M173 Piston 1.00 mm, 1 x PUPRK0005D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

- › P4181V017

4) Ring Gear

- › P0410236 115T



1) Top Gasket Set

- › PU5LT0355

2) Bottom Gasket

- › PU5LB0379

3) Head Gasket

- › P3681E049

4) Valve Cover Gsk

- › P3681A057

5) Oil Pan Gasket

- › P3681K038



1) Bush, Con Rod

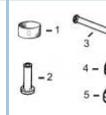
- › P3112A005 x3

2) Bolt, Con Rod

- › P3212V003 x6

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Tappet

- › P3142U061

3) Push Rod

- › P3142V011

4) Seal, Exh Valve

- › P2418M517 x3

5) Seal, Intk Valve

- › P2418M519 x3

Valve Train Kit

- › PVTK310

1) Valve, Intake

- › P3142H111 x3

2) Valve, Exhaust

- › P3142A171 x3

3) Guide, Valve (Intake & Exhaust)

- › P3313A012 x6

4) Spring, Valve

- › P3174A031 x6

5) Lock, Valve

- › P2714A002 x12



Oil Pump

- › P4132F071 3
- › P4132F072 3

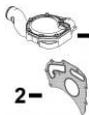
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1



Lift Pump

- › PULPK0040



1) Water Pump

- › PU5MW0208

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › P4133L503 3
- › P4133L507 3
- › P4133L508 3



Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x5
- › P3218A012 x3



1) Glow Plug

- › P2666A016 x3

2) Oil Pressure Switch

- › 2a) P2848A071 3

- › 2b) P2848062 3

3) Water Temp Sensor

- › P2848A123 3
- › P2848A126 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

PERKINS 1103D-33T (XL), 1103D-33TA (XM) 2

Engine Series:

1100D

Engine Model:

1103D-33T (XL) / 1103D-33TA (XM)

Engine Data:

TURBOCHARGED Tier 3

Engine Info:

3 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 201 in³ / 3.3 Lt



1) Engine O/H Kit

- › POK346 Std.
- › POK347 0.50
- › POK348 1.00

2) Basic Engine Kit

- › PBK346 Std.
- › PBK347 0.50
- › PBK348 1.00
- › SPEC SHEET - 1103D-33T



Piston & Ring Kit

- › PU5PR0064 Std.
- › PU5PR0064B 0.50
- › PU5PR0064D 1.00

3 Per Engine



Main Bearing Set

- › PU5MB0019 Std.
- › PU5MB0019A 0.010
- › PU5MB0019B 0.020
- › PU5MB0019C 0.030

Set of 4 Pairs



Con Rod Bearing Set

- › PU5ME0018 Std.
- › PU5ME0018A 0.010
- › PU5ME0018B 0.020
- › PU5ME0018C 0.030

Set of 3 Pairs



Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M171 Piston Std, 1 x PUPRK0005 Ring Set Std.
- 2) 1 x P3135M172 Piston 0.50 mm, 1 x PUPRK0005B Ring Set 0.50 mm.
- 3) 1 x P3135M173 Piston 1.00 mm, 1 x PUPRK0005D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

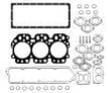
- › P2418F704

3) Crankshaft Kit

- › P4181V017

4) Ring Gear

- › P0410236 115T



1) Top Gasket Set

- › PU5LT0355

2) Bottom Gasket

- › PU5LB0380

3) Head Gasket

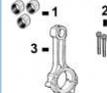
- › P3681E049

4) Valve Cover Gsk

- › P3681A057

5) Oil Pan Gasket

- › P3681K038



1) Bush, Con Rod

- › P3112A005 x3

2) Bolt, Con Rod

- › P3212V003 x6

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Tappet

- › P3142U061

3) Push Rod

- › P3142V011

4) Seal, Exh Valve

- › P2418M517 x3

5) Seal, Intk Valve

- › P2418M519 x3

Valve Train Kit

- › PVTK310

1) Valve, Intake

- › P3142H111 x3

2) Valve, Exhaust

- › P3142A171 x3

3) Guide, Valve (Intake & Exhaust)

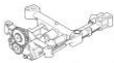
- › P3313A012 x6

4) Spring, Valve

- › P3174A031 x6

5) Lock, Valve

- › P2714A002 x12



Oil Pump

- › P4132F071 3
- › P4132F072 3

1

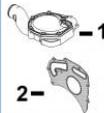
1



Lift Pump

- › PULPK0040 3

3



1) Water Pump

- › PU5MW0208

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › P4133L503 3
- › P4133L507 3
- › P4133L508 3



Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x5
- › P3218A012 x3



1) Glow Plug

- › P2666A016 x3

2) Oil Pressure Switch

- › 2a) P2848A071 3

- › 2b) P2848062 3

3) Water Temp Sensor

- › P2848A123 3
- › P2848A126 3

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Check application for proper usage.

Engine Series:
1100

Engine Model:
1104C-44 (RE)
/ 1104C-E44 (RF) / 1104A-44 (RR)

Engine Desc:
Tier 2

Engine Data:
NATURALLY
ASPIRATED

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt

Industrial Backhoe Loader - (RE38238)
Genset - (RE51215)

Gehl

7610 - Skid Steer
7710 - Skid Steer

Noble (Liftking)

RC60 - Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Asv-Posi-Track

RC-85 Comp Track Loader

Hyster

H80-155 TIER 2

Marine-Power-Systems

4.4GM



1) Engine O/H Kit

- › POK412 Std.
- › POK413 0.50
- › POK414 1.00

2) Basic Engine Kit

- › PBK412 Std.
- › PBK413 0.50
- › PBK414 1.00
- › SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- › P4115P011 Std.
- › P4115P012 0.50
- › P4115P013 1.00

4 Per Engine



Main Bearing Set

- › PU5MB0018 Std.
- › PU5MB0018A 0.010
- › PU5MB0018B 0.020
- › PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › PU5ME0013 Std. **5**
- › PU5ME0013A 0.010 **5**
- › PU5ME0013B 0.020 **5**
- › PU5ME0013C 0.030 **5**

Set of 4 Pairs



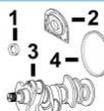
Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

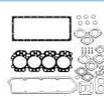
- › PZZ90239
- › PZZ90237

4) Ring Gear

- › P0410236 115T
- › P31162121 126T

5) Crankshaft Gear

- › P3117C221



1) Top Gasket Set

- › PU5LT0357

2) Bottom Gasket

- › PU5LB0382

3) Head Gasket

- › P3681E051

4) Valve Cover Gsk

- › P3681A055

5) Timing Cover Gsk

- › P3681P046

6) Oil Pan Gasket

- › P3681K037



1) Bush, Con Rod

- › P3112A005 x4

2) Bolt, Con Rod

- › P3212V003 x8

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Camshaft

- › P4112K041

3) Tappet

- › P31434163

4) Pushrod

- › P31434307

5) Seal, Exh Valve

- › P2418M517 x4

6) Seal, Intk Valve

- › P2418M519 x4

7) Cam and Lifter Kit

- › P4112K041KIT

Valve Train Kit

- › PVTK425

1) Valve, Intake

- › P3142H071 x4

2) Valve, Exhaust

- › P3142A151 x4

3) Guide, Valve (Intake & Exhaust)

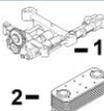
- › P3313A012 x8

4) Spring, Valve

- › P3174A016 x8

5) Lock, Valve

- › P3142W004 x16



1) Oil Pump

- › P4132F071 **1**

2) Oil Cooler

- › P2486A215 5 plate **7**



1) Lift Pump

- › P2641A203 **7**
- › PULPK0041 **7**

2) Injector

- › P2645K016

3) Pre-Fuel Filter Assy

- › P130306380

4) Piston Cooling Nozzle

- › P2113A003



1) Water Pump

- › PU5MW0206 **7**

2) Water Pump Gasket

- › P3682A011 **7**

3) Thermostat

- › P4133L503 **7**
- › P4133L507 **7**
- › P4133L508 **7**



Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x7
- › P3218A012 x3



1) Glowplug

- › P2666A016 x4 **6**
- › P2666A017 x4 **6**

2) Oil Pressure Sensor

- › P2874A007 **7**

3) Oil Pressure Switch

- › 3a) P2848A071 **7**
- › 3b) P2848062 **7**

4) Temp Sensor

- › P2874A018 **7**

5) Water Temp Sensor

- › P2848A123 **7**
- › P2848A126 **7**
- › P2848A129 **7**

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Build RF.

(5): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(7): Check for proper application.

(9): 68mm rod journal, non-splined nose

(2): Grade J, Color Coded Green. To ESN U491476T.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(6): RE Build Only.

(8): 63.5mm rod journal, splined nose

Engine Series:
1100

Engine Model:
1104C-44 (RE) /
1104C-E44 (RF)
/ 1104A-44 (RR)

Engine Data:
NATURALLY
ASPIRATED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3/ 4.4 Lt



1) Engine O/H Kit

- ▶ POK415 Std. 5
- ▶ POK416 0.50 5
- ▶ POK417 1.00 5

(Rod Brg OD 68 mm)

- ▶ POK415S Std. 9
- ▶ POK416S 0.50 9
- ▶ POK417S 1.00 9

2) Basic Engine Kit

- ▶ PBK415 Std. 5
- ▶ PBK416 0.50 5
- ▶ PBK417 1.00 5

(Rod Brg OD 68 mm)

- ▶ PBK415S Std. 9
- ▶ PBK416S 0.50 9
- ▶ PBK417S 1.00 9
- ▶ SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- ▶ P4115P011 Std. 5
- ▶ P4115P012 0.50 5
- ▶ P4115P013 1.00 5

4 Per Engine



Main Bearing Set

- ▶ PU5MB0018 Std. 5
- ▶ PU5MB0018A 0.010 5
- ▶ PU5MB0018B 0.020 5
- ▶ PU5MB0018C 0.030 5

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0013 Std. 5
- ▶ PU5ME0013A 0.010 5
- ▶ PU5ME0013B 0.020 5
- ▶ PU5ME0013C 0.030 5
- ▶ PT410927 Std. 9
- ▶ PT420155 0.010 9
- ▶ PT420154 0.020 9
- ▶ PT420153 0.030 9

Set of 4 Pairs



Thrust Washer Set

- ▶ P31137551/61 Std. 5
- ▶ P31137312/22 0.007 5

Set of 2 Pairs

(RE38396) -
Tractors
(RE38082) -
Industrial
(RE38108) -
Industrial

Noble (Liftking)

RC60 - Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Gehl

7610 - Skid
Steer
7710 - Skid
Steer

Asv Posi-Track

RC-85 - Comp
Track Loader

**Marine-Power-
Systems**

4.4GM

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- ▶ P2418F436

2) Rear Seal

- ▶ P2418F704

3) Crankshaft Kit

- ▶ PZZ90239 7
- ▶ PZZ90237 8

4) Ring Gear

- ▶ P0410236 115T
- ▶ P31162121 126T

5) Crankshaft Gear

- ▶ P3117C221



1) Top Gasket Set

- ▶ PU5LT0357

2) Bottom Gasket

- ▶ PU5LB0384 4

3) Head Gasket

- ▶ P3681E051 7

4) Valve Cover Gsk

- ▶ P3681A055 8

5) Timing Cover Gsk

- ▶ P3681P047

6) Oil Pan Gasket

- ▶ P3681K036



1) Bush, Con Rod

- ▶ P3112A005 x4

2) Bolt, Con Rod

- ▶ P3212V003 x8

3) Con Rod Kit

- ▶ P4115C314 2



1) Bushing, Cam

- ▶ P3112D071 x1

2) Camshaft

- ▶ P4112K041

3) Tappet

- ▶ P31434163 7

4) Pushrod

- ▶ P31434307

5) Seal, Exh Valve

- ▶ P2418M517 x4

6) Seal, Intk Valve

- ▶ P2418M519 x4

7) Cam and Lifter KIT

- ▶ P4112K041KIT

Valve Train Kit

- ▶ PVTK425

1) Valve, Intake

- ▶ P3142H071 x4

2) Valve, Exhaust

- ▶ P3142A151 x4

**3) Guide, Valve
(Intake & Exhaust)**

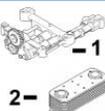
- ▶ P3313A012 x8

4) Spring, Valve

- ▶ P3174A016 x8

5) Lock, Valve

- ▶ P3142W004 x16



1) Oil Pump

- ▶ P4132F071 1

2) Oil Cooler

- ▶ P2486A215 5 plate 6



1) Lift Pump

- ▶ P2641A203 3

2) Lift Pump

- ▶ PULPK0041 6

3) Injector

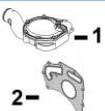
- ▶ P2645K016 6

4) Piston Cooling Nozzle

- ▶ P2113A003

5) Pre-Fuel Filter Assy

- ▶ P130306380



1) Water Pump

- ▶ PU5MW0206 6

2) Water Pump Gasket

- ▶ P3682A011 6

3) Thermostat

- ▶ P4133L503 6
- ▶ P4133L507 6
- ▶ P4133L508 6



Repair Sleeve

- ▶ 105RS

2) Head Bolts

- ▶ P3218A011 x7
- ▶ P3218A012 x3



1) Glowplug

- ▶ P2666A016 x4 6
- ▶ P2666A017 x4 6

2) Oil Pressure Sensor

- ▶ P2874A007 6

3) Oil Pressure Switch

- ▶ 3a) P2848A071 6
- ▶ 3b) P2848062 6

4) Temp Sensor

- ▶ P2874A018 6

5) Water Temp Sensor

- ▶ P2848A123 6
- ▶ P2848A126 6
- ▶ P2848A129 6

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RF.

(5): Use for rods that have a 63.5mm rod journal.

(7): 63.5mm rod journal, splined nose

(9): Use for rods that have a 68mm rod journal.

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(6): Check for proper application.

(8): 68mm rod journal, non-splined nose

Engine Series:
1100

Engine Model:
1104C-44 (RE) /
1104C-E44 (RF)
/ 1104A-44 (RR)

Engine Data:
NATURALLY
ASPIRATED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3/ 4.4 Lt



1) Engine O/H Kit

- ▶ POK480 Std. 5
- ▶ POK481 0.50 5
- ▶ POK482 1.00 5

(Rod Brg OD 68 mm)

- ▶ POK480S Std. 10
- ▶ POK481S 0.50 10
- ▶ POK482S 1.00 10

**2) Basic Engine Kit
(Rod Brg OD 68 mm)**

- ▶ PBK480 Std. 5
- ▶ PBK481 0.50 5
- ▶ PBK482 1.00 5

(Rod Brg OD 68 mm)

- ▶ PBK480S Std. 10
- ▶ PBK481S 0.50 10
- ▶ PBK482S 1.00 10
- ▶ SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- ▶ P4115P011 Std.
- ▶ P4115P012 0.50
- ▶ P4115P013 1.00

4 Per Engine



Main Bearing Set

- ▶ PU5MB0018 Std.
- ▶ PU5MB0018A 0.010
- ▶ PU5MB0018B 0.020
- ▶ PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0013 Std. 5
- ▶ PU5ME0013A 0.010 5
- ▶ PU5ME0013B 0.020 5
- ▶ PU5ME0013C 0.030 5
- ▶ PT410927 Std. 10
- ▶ PT420155 0.010 10
- ▶ PT420154 0.020 10
- ▶ PT420153 0.030 10

Set of 4 Pairs



Thrust Washer Set

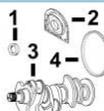
- ▶ P31137551/61 Std.
- ▶ P31137312/22 0.007

Set of 2 Pairs

Please see page 525 for a complete list of equipment models.

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- ▶ P2418F436

2) Rear Seal

- ▶ P2418F704

3) Crankshaft Kit

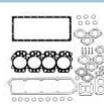
- ▶ PZZ90239
- ▶ PZZ90237

4) Ring Gear

- ▶ P0410236 115T
- ▶ P31162121 126T

5) Crankshaft Gear

- ▶ P3117C221



1) Top Gasket Set

- ▶ PU5LT0357

2) Bottom Gasket

- ▶ PU5LB0383

3) Head Gasket

- ▶ P3681E051

4) Valve Cover Gsk

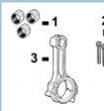
- ▶ P3681A055

5) Timing Cover Gsk

- ▶ P3681P046

6) Oil Pan Gasket

- ▶ P3681K036



1) Bush, Con Rod

- ▶ P3112A005 x4

2) Bolt, Con Rod

- ▶ P3212V003 x8

3) Con Rod Kit

- ▶ P4115C314



1) Bushing, Cam

- ▶ P3112D071 x1

2) Camshaft

- ▶ P4112K041

3) Tappet

- ▶ P31434163

4) Pushrod

- ▶ P31434307

5) Seal, Exh Valve

- ▶ P2418M517 x4

6) Seal, Intk Valve

- ▶ P2418M519 x4

7) Cam and Lifter KIT

- ▶ P4112K041KIT

Valve Train Kit

- ▶ PVTK425

1) Valve, Intake

- ▶ P3142H071 x4

2) Valve, Exhaust

- ▶ P3142A151 x4

**3) Guide, Valve
(Intake & Exhaust)**

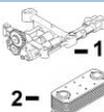
- ▶ P3313A012 x8

4) Spring, Valve

- ▶ P3174A016 x8

5) Lock, Valve

- ▶ P3142W004 x16



1) Oil Pump

- ▶ P4132F071 1

2) Oil Cooler

- ▶ P2486A215 5 plate 7



1) Lift Pump

- ▶ P2641A203 3

2) Lift Pump

- ▶ PULPK0041 7

3) Injector

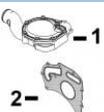
- ▶ P2645K016 7

4) Piston Cooling Nozzle

- ▶ P2113A003

5) Pre-Fuel Filter Assy

- ▶ P130306380



1) Water Pump

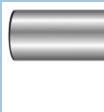
- ▶ PU5MW0206 3

2) Water Pump Gasket

- ▶ P3682A011 7

3) Thermostat

- ▶ P4133L503 7
- ▶ P4133L507 7
- ▶ P4133L508 7



Repair Sleeve

- ▶ 105RS

2) Head Bolts

- ▶ P3218A011 x7
- ▶ P3218A012 x3



1) Glowplug

- ▶ P2666A016 x4 7
- ▶ P2666A017 x4 7

2) Oil Pressure Sensor

- ▶ P2874A007 7

3) Oil Pressure Switch

- ▶ 3a) P2848A071 7
- ▶ 3b) P2848062 7

4) Temp Sensor

- ▶ P2874A018 7

5) Water Temp Sensor

- ▶ P2848A123 7
- ▶ P2848A126 7
- ▶ P2848A129 7

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RF.

(5): Use for rods that have a 63.5mm rod journal.

(7): Check for proper application.

(9): 68mm rod journal, non-splined nose

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(6): RE Build Only.

(8): 63.5mm rod journal, splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44 (RE)
/ 1104C-E44 (RF) / 1104A-44 (RR)

Engine Desc:
Build Number
RE38172

Engine Data:
NATURALLY
ASPIRATED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133
in / 105.00
mm Stroke:
5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt

Gehl Mfg
(RE37911) -
Skid Steer
Loader
7610 - Skid
Steer
7710 - Skid
Steer
Hyster-Forklifts
(RE38037)
(RE38038)

Noble (Liftking)
RC60 LoPro -
Forklift
RT50 - Forklift
RT60 - Forklift
RT80 - Forklift

Asv-Posi-Track
RC-85 - Comp
Track Loader

**Marine-Power-
Systems**
4.4GM



1) Engine O/H Kit

- › POK483 Std.
- › POK484 0.50
- › POK485 1.00

2) Basic Engine Kit

- › PBK483 Std.
- › PBK484 0.50
- › PBK485 1.00
- › SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- › P4115P011 Std.
 - › P4115P012 0.50
 - › P4115P013 1.00
- 4 Per Engine**



Main Bearing Set

- › PU5MB0018 Std.
- › PU5MB0018A 0.010
- › PU5MB0018B 0.020
- › PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › PU5ME0013 Std. **5**
- › PU5ME0013A 0.010 **5**
- › PU5ME0013B 0.020 **5**
- › PU5ME0013C 0.030 **5**

Set of 4 Pairs

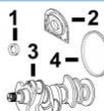


Thrust Washer Set

- › P31137551/61 Std.
 - › P31137312/22 0.007
- Set of 2 Pairs**

Piston Kit:

- 1) 1 x P3135M105 Piston Std, 1 x PUPRK0003 Ring Set Std.
- 2) 1 x P3135M106 Piston 0.50 mm, 1 x PUPRK0003B Ring Set 0.50 mm.
- 3) 1 x P3135M107 Piston 1.00 mm, 1 x PUPRK0003D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

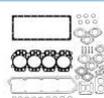
- › PZZ90239
- › PZZ90237

4) Ring Gear

- › P0410236 115T
- › P31162121 126T

5) Crankshaft Gear

- › P3117C221



1) Top Gasket Set

- › PU5LT0357

2) Bottom Gasket

- › PU5LB0381

3) Head Gasket

- › P3681E051

4) Valve Cover Gsk

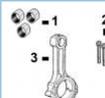
- › P3681A055

5) Timing Cover Gsk

- › P3681P047

6) Oil Pan Gasket

- › P3681K037



1) Bush, Con Rod

- › P3112A005 x4

2) Bolt, Con Rod

- › P3212V003 x8

3) Con Rod Kit

- › P4115C314



1) Bushing, Cam

- › P3112D071 x1

2) Camshaft

- › P4112K041

3) Tappet

- › P31434163

4) Pushrod

- › P31434307

5) Seal, Exh Valve

- › P2418M517 x4

6) Seal, Intk Valve

- › P2418M519 x4

7) Cam and Lifter Kit

- › P4112K041KIT

Valve Train Kit

- › PVTK425

1) Valve, Intake

- › P3142H071 x4

2) Valve, Exhaust

- › P3142A151 x4

3) Guide, Valve (Intake & Exhaust)

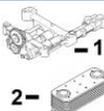
- › 3) P3313A012 x8

4) Spring, Valve

- › P3174A016 x8

5) Lock, Valve

- › P3142W004 x16



1) Oil Pump

- › P4132F071

2) Oil Cooler

- › P2486A215 5 plate



1) Lift Pump

- › P2641A203

2) Lift Pump

- › PULPK0041

3) Injector

- › P2645K016

4) Piston Cooling Nozzle

- › P2113A003

5) Pre-Fuel Filter Assy

- › P130306380



1) Water Pump

- › PU5MW0206

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › P4133L503
- › P4133L507
- › P4133L508



Repair Sleeve

- › 105RS

2) Head Bolts

- › P3218A011 x7
- › P3218A012 x3



1) Glowplug

- › P2666A016 x4

- › P2666A017 x4

2) Oil Pressure Sensor

- › P2874A007

3) Oil Pressure Switch

- › 3a) P2848A071

- › 3b) P2848062

4) Temp Sensor

- › P2874A018

5) Water Temp Sensor

- › P2848A123

- › P2848A126

- › P2848A129

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RF.

(5): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(7): Check for proper application.

(9): 68mm rod journal, non-splined nose

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(6): RE Build Only.

(8): 63.5mm rod journal, splined nose

PERKINS 1104C-44T (RG), (RH), (RK), (RS), (RT) BUILDS

Engine Series:
1100

Engine Model:
1104C-44T (RG)
/ 1104C-E44T (RH) / 1104C-E44TA (RK) / 1104A-44T (RS) / 1104A-44TA (RT)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Please see page 526 for a complete list of equipment models.



1) Engine O/H Kit

- ▶ POK418 Std. 5
- ▶ POK419 0.50 5
- ▶ POK420 1.00 5

(Rod Brg OD 68 mm)

- ▶ POK418S Std. 10
- ▶ POK419S 0.50 10
- ▶ POK420S 1.00 10

2) Basic Engine Kit

- ▶ PBK418 Std. 5
- ▶ PBK419 0.50 5
- ▶ PBK420 1.00 5

(Rod Brg OD 68 mm)

- ▶ PBK418S Std. 10
- ▶ PBK419S 0.50 10
- ▶ PBK420S 1.00 10
- ▶ SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- ▶ P4115P015 Std. 5
- ▶ P4115P016 0.50 5
- ▶ P4115P017 1.00 5

4 Per Engine



Main Bearing Set

- ▶ PU5MB0018 Std. 5
- ▶ PU5MB0018A 0.010 5
- ▶ PU5MB0018B 0.020 5
- ▶ PU5MB0018C 0.030 5

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0013 Std. 5
- ▶ PU5ME0013A 0.010 5
- ▶ PU5ME0013B 0.020 5
- ▶ PU5ME0013C 0.030 5
- ▶ PT410927 Std. 10
- ▶ PT420155 0.010 10
- ▶ PT420154 0.020 10
- ▶ PT420155 0.030 10

Set of 4 Pairs



Thrust Washer Set

- ▶ P31137551/61 Std. 5
- ▶ P31137312/22 0.007 5

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



- 1) **Front Seal**
▶ P2418F436
- 2) **Rear Seal**
▶ P2418F704
- 3) **Crankshaft Kit**
▶ PZZ90239
▶ PZZ90237
- 4) **Ring Gear**
▶ P0410236 115T
▶ P31162121 126T
- 5) **Crankshaft Gear**
▶ P3117C221



- 1) **Top Gasket Set**
▶ PU5LT0357
- 2) **Bottom Gasket**
▶ PU5LB0382
- 3) **Head Gasket**
▶ P3681E051
- 4) **Valve Cover Gsk**
▶ P3681A055
- 5) **Timing Cover Gsk**
▶ P3681P046
- 6) **Oil Pan Gasket**
▶ P3681K037



- 1) **Bush, Con Rod**
▶ P3112A005 x4
- 2) **Bolt, Con Rod**
▶ P3212V003 x8
- 3) **Con Rod Kit**
▶ P4115C314



- 1) **Bushing, Cam**
▶ P3112D071 x1
- 2) **Camshaft**
▶ P4112K043
- 3) **Tappet**
▶ P31434163
- 4) **Pushrod**
▶ P31434307
- 5) **Seal, Exh Valve**
▶ P2418M517 x4
- 6) **Seal, Intk Valve**
▶ P2418M519 x4
- 7) **Cam and Lifter Kit**
▶ P4112K043KIT

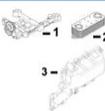
- Valve Train Kit**
▶ PVTK425

- 1) **Valve, Intake**
▶ P3142H071 x4
- 2) **Valve, Exhaust**
▶ P3142A151 x4

- 3) **Guide, Valve (Intake & Exhaust)**
▶ P3313A012 x8

- 4) **Spring, Valve**
▶ P3174A016 x8

- 5) **Lock, Valve**
▶ P3142W004 x16



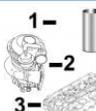
- 1) **Oil Pump**
▶ P4132F071 1
- 2) **Oil Cooler**
▶ P2486A217
- 3) **Oil Cooler Assembly**
▶ P4134W025 9



- 1) **Lift Pump**
▶ P2641A203 3
- 2) **Lift Pump**
▶ PULPK0041 6
- 3) **Injector**
▶ P2645K011 6
▶ P2645K012 6
- 4) **Piston Cooling Nozzle**
▶ P3861A027
- 5) **Pre-Fuel Filter Assy**
▶ P130306380



- 1) **Water Pump**
▶ PU5MW0206 3
- 2) **Water Pump Gasket**
▶ P3682A011 6
- 3) **Thermostat**
▶ P4133L503 6
▶ P4133L507 6
▶ P4133L508 6



- 1) **Repair Sleeve**
▶ 105RS
- 2) **Turbocharger**
▶ P2674A200
▶ P2674A201
▶ P2674A209
▶ P2674A226
- 3) **Cylinder Head**
▶ PZZ80267UF
- 4) **Head Bolts**
▶ P3218A011 x7
▶ P3218A012 x3



- 1) **Glowplug**
▶ P2666A016 x4 6
▶ P2666A017 x4 6
- 2) **Oil Pressure Sensor**
▶ P2874A007 6
- 3) **Oil Pressure Switch**
▶ 3a) P2848A071 6
▶ 3b) P2848062 6
- 4) **Temp Sensor**
▶ P2874A018 6
- 5) **Water Temp Sensor**
▶ P2848A123 6
▶ P2848A126 6
▶ P2848A129 6

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RH or RK or RT.

(5): Use for rods that have a 63.5mm rod journal.

(7): 63.5mm rod journal, splined nose

(9): Includes 9 plate oil cooler core.

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(6): Check for proper application.

(8): 68mm rod journal, non-splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG)
/ 1104C-44TA
(RJ) / 1104C-
E44TA (RK)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt



1) Engine O/H Kit

- ▶ POK421 Std. 5
- ▶ POK422 0.50 5
- ▶ POK423 1.00 5

(Rod Brg OD 68 mm)

- ▶ POK421S Std. 10
- ▶ POK422S 0.50 10
- ▶ POK423S 1.00 10

2) Basic Engine Kit

- ▶ PBK421 Std. 5
- ▶ PBK422 0.50 5
- ▶ PBK423 1.00 5

(Rod Brg OD 68 mm)

- ▶ PBK421S Std. 10
- ▶ PBK422S 0.50 10
- ▶ PBK423S 1.00 10
- ▶ SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- ▶ P4115P015 Std.
- ▶ P4115P016 0.50
- ▶ P4115P017 1.00

4 Per Engine



Main Bearing Set

- ▶ PU5MB0018 Std.
- ▶ PU5MB0018A 0.010
- ▶ PU5MB0018B 0.020
- ▶ PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0013 Std. 5
- ▶ PU5ME0013A 0.010 5
- ▶ PU5ME0013B 0.020 5
- ▶ PU5ME0013C 0.030 5
- ▶ PT410927 Std. 10
- ▶ PT420155 0.010 10
- ▶ PT420154 0.020 10
- ▶ PT420153 0.030 10

Set of 4 Pairs



Thrust Washer Set

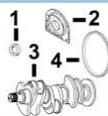
- ▶ P31137551/61 Std.
- ▶ P31137312/22 0.007

Set of 2 Pairs

Please see page 527 for a complete list of equipment models.

Piston Kit:

- 1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



1) Front Seal

- ▶ P2418F436

2) Rear Seal

- ▶ P2418F704

3) Crankshaft Kit

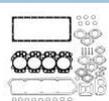
- ▶ PZZ90239
- ▶ PZZ90237

4) Ring Gear

- ▶ P0410236 115T
- ▶ P31162121 126T

5) Crankshaft Gear

- ▶ P3117C221



1) Top Gasket Set

- ▶ PU5LT0357

2) Bottom Gasket

- ▶ PU5LB0384

3) Head Gasket

- ▶ P3681E051

4) Valve Cover Gsk

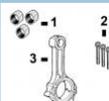
- ▶ P3681A055

5) Timing Cover Gsk

- ▶ P3681P047

6) Oil Pan Gasket

- ▶ P3681K036



1) Bush, Con Rod

- ▶ P3112A005 x4

2) Bolt, Con Rod

- ▶ P3212V003 x8

3) Con Rod Kit

- ▶ P4115C314



1) Bushing, Cam

- ▶ P3112D071 x1

2) Camshaft

- ▶ P4112K041
- ▶ P4112K043

3) Tappet

- ▶ P31434163

4) Pushrod

- ▶ P31434307

5) Seal, Exh Valve

- ▶ P2418M517 x4

6) Seal, Intk Valve

- ▶ P2418M519 x4

7) Cam and Lifter Kit

- ▶ P4112K041KIT
- ▶ P4112K043KIT

Valve Train Kit

- ▶ PVTK425

1) Valve, Intake

- ▶ P3142H071 x4

2) Valve, Exhaust

- ▶ P3142A151 x4

3) Guide, Valve (Intake & Exhaust)

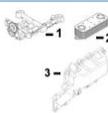
- ▶ P3313A012 x8

4) Spring, Valve

- ▶ P3174A016 x8

5) Lock, Valve

- ▶ P3142W004 x16



1) Oil Pump

- ▶ P4132F071

2) Oil Cooler Plate

- ▶ P2486A217

3) Oil Cooler Assembly

- ▶ P4134W025



1) Lift Pump

- ▶ P2641A203

2) Lift Pump

- ▶ PULPK0041

3) Injector

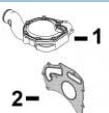
- ▶ P2645K011
- ▶ P2645K012

4) Piston Cooling Nozzle

- ▶ P3861A027

5) Pre-Fuel Filter Assy

- ▶ P130306380



1) Water Pump

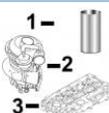
- ▶ PU5MW0206

2) Water Pump Gasket

- ▶ P3682A011

3) Thermostat

- ▶ P4133L503
- ▶ P4133L507
- ▶ P4133L508



1) Repair Sleeve

- ▶ 105RS

2) Turbocharger

- ▶ P2674A200
- ▶ P2674A201
- ▶ P2674A202
- ▶ P2674A404
- ▶ P2674A209
- ▶ P2674A211
- ▶ P2674A223
- ▶ P2674A225
- ▶ P2674A226

3) Cylinder Head

- ▶ PZZ80267UF

4) Head Bolts

- ▶ P3218A011 x7
- ▶ P3218A012 x3



1) Glowplug

- ▶ P2666A016 x4
- ▶ P2666A017 x4

2) Oil Pressure Switch

- ▶ 2a) P2848A071
- ▶ 2b) P2848062

3) Temp Sensor

- ▶ P2874A018

4) Water Temp Sensor

- ▶ P2848A123
- ▶ P2848A126
- ▶ P2848A129

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RK.

(5): Use for rods that have a 63.5mm rod journal.

(7): 63.5mm rod journal, splined nose

(9): Includes 9 plate oil cooler core.

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(6): Check application for proper usage.

(8): 68mm rod journal, non-splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG)
/ 1104C-E44T (RH)

Engine Data:
TURBOCHARGED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3/ 4.4 Lt



1) Engine O/H Kit

- ▶ POK486 Std. 5
 - ▶ POK487 0.50 5
 - ▶ POK488 1.00 5
- (Rod Brg OD 68 mm)**
- ▶ POK486S Std. 10
 - ▶ POK487S 0.50 10
 - ▶ POK488S 1.00 10

2) Basic Engine Kit

- ▶ PBK486 Std. 5
 - ▶ PBK487 0.50 5
 - ▶ PBK488 1.00 5
- (Rod Brg OD 68 mm)**
- ▶ PBK486S Std. 10
 - ▶ PBK487S 0.50 10
 - ▶ PBK488S 1.00 10
- ▶ SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- ▶ P4115P015 Std.
 - ▶ P4115P016 0.50
 - ▶ P4115P017 1.00
- 4 Per Engine**



Main Bearing Set

- ▶ PU5MB0018 Std.
 - ▶ PU5MB0018A 0.010
 - ▶ PU5MB0018B 0.020
 - ▶ PU5MB0018C 0.030
- Set of 5 Pairs**



Con Rod Bearing Set

- ▶ PU5ME0013 Std. 5
 - ▶ PU5ME0013A 0.010 5
 - ▶ PU5ME0013B 0.020 5
 - ▶ PU5ME0013C 0.030 5
 - ▶ PT410927 Std. 10
 - ▶ PT420155 0.010 10
 - ▶ PT420154 0.020 10
 - ▶ PT420153 0.030 10
- Set of 4 Pairs**



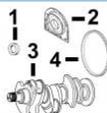
Thrust Washer Set

- ▶ P31137551/61 Std.
 - ▶ P31137312/22 0.007
- Set of 2 Pairs**

Please see page 528 for a complete list of equipment models.

Piston Kit:

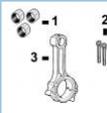
- 1) 1 x P3135M111 Piston Std, 1 x [PUPRK0002](#) Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x [PUPRK0002B](#) Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x [PUPRK0002D](#) Ring Set 1.00 mm.



- 1) **Front Seal**
▶ P2418F436
- 2) **Rear Seal**
▶ P2418F704
- 3) **Crankshaft Kit**
▶ PZZ90239
▶ PZZ90237
- 4) **Ring Gear**
▶ P0410236 115T
▶ P31162121 126T
- 5) **Crankshaft Gear**
▶ P3117C221



- 1) **Top Gasket Set**
▶ PU5LT0357
- 2) **Bottom Gasket**
▶ PU5LB0383
- 3) **Head Gasket**
▶ P3681E051
- 4) **Valve Cover Gsk**
▶ P3681A055
- 5) **Timing Cover Gsk**
▶ P3681P046
- 6) **Oil Pan Gasket**
▶ P3681K036



- 1) **Bush, Con Rod**
▶ P3112A005 x4
- 2) **Bolt, Con Rod**
▶ P3212V003 x8
▶ PT400001 x8
- 3) **Connecting Rod**
▶ P4115C314
▶ P4115C364



- 1) **Bushing, Cam**
▶ P3112D071 x1
- 2) **Camshaft**
▶ P4112K043
- 3) **Tappet**
▶ P31434163
- 4) **Pushrod**
▶ P31434307
- 5) **Seal, Exh Valve**
▶ P2418M517 x4
- 6) **Seal, Intk Valve**
▶ P2418M519 x4
- 7) **Cam and Lifter Kit**
▶ P4112K043KIT

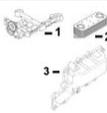
Valve Train Kit
▶ PVTK425

- 1) **Valve, Intake**
▶ P3142H071 x4
- 2) **Valve, Exhaust**
▶ P3142A151 x4

- 3) **Guide, Valve (Intake & Exhaust)**
▶ P3313A012 x8

- 4) **Spring, Valve**
▶ P3174A016 x8

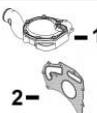
- 5) **Lock, Valve**
▶ P3142W004 x16



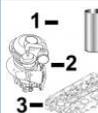
- 1) **Oil Pump**
▶ P4132F071 1
- 2) **Oil Cooler Plate**
▶ P2486A217
- 3) **Oil Cooler Assembly**
▶ P4134W025 9



- 1) **Lift Pump**
▶ P2641A203 3
- 2) **Lift Pump**
▶ PULPK0041 6
- 3) **Injector**
▶ P2645K011 6
- 4) **Piston Cooling Nozzle**
▶ P2113A003
- 5) **Pre-Fuel Filter Assy**
▶ P130306380



- 1) **Water Pump**
▶ PU5MW0206 3
- 2) **Water Pump Gasket**
▶ P3682A011 6
- 3) **Thermostat**
▶ P4133L503 6
▶ P4133L507 6
▶ P4133L508



- 1) **Repair Sleeve**
▶ 105RS 6
- 2) **Turbocharger**
▶ P2674A200 6
▶ P2674A209 6
▶ P2674A226 6
- 3) **Cylinder Head**
▶ PZZ80267UF
- 4) **Head Bolts**
▶ P3218A011 x7 6
▶ P3218A012 x3 6



- 1) **Glowplug**
▶ P2666A016 x4 6
▶ P2666A017 x4 6
- 2) **Oil Pressure Sensor**
▶ P2874A007 6
- 3) **Oil Pressure Switch**
▶ 3a) P2848A071 6
▶ 3b) P2848062 6
- 4) **Temp Sensor**
▶ P2874A018 6
- 5) **Water Temp Sensor**
▶ P2848A123 6
▶ P2848A126 6
▶ P2848A129 6

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RH.

(5): Use for rods that have a 63.5mm rod journal.

(7): 63.5mm rod journal, splined nose.

(9): Includes 9 plate oil cooler core.

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(6): Check for proper application.

(8): 68mm rod journal, non-splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:
1100

Engine Model:
1104C-44T (RG)
/ 1104C-E44T (RH)

Engine Data:
TURBOCHARGED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt



1) Engine O/H Kit

- › POK491 Std. 5
- › POK492 0.50 5
- › POK493 1.00 5

(Rod Brg OD 68 mm)

- › POK491S Std. 10
- › POK492S 0.50 10
- › POK493S 1.00 10

2) Basic Engine Kit

- › PBK491 Std. 5
- › PBK492 0.50 5
- › PBK493 1.00 5

(Rod Brg OD 68 mm)

- › PBK491S Std. 10
- › PBK492S 0.50 10
- › PBK493S 1.00 10
- › SPEC SHEET - 1103; 1104 ABC



Piston & Ring Kit

- › P4115P015 Std.
- › P4115P016 0.50
- › P4115P017 1.00

4 Per Engine



Main Bearing Set

- › PU5MB0018 Std.
- › PU5MB0018A 0.010
- › PU5MB0018B 0.020
- › PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › PU5ME0013 Std. 5
- › PU5ME0013A 0.010 5
- › PU5ME0013B 0.020 5
- › PU5ME0013C 0.030 5
- › PT410927 Std. 10
- › PT420155 0.010 10
- › PT420154 0.020 10
- › PT420153 0.030 10

Set of 4 Pairs



Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

OEM
RK38158

Asv Posi-Track
RC-100 - Comp Track Loader
PT-100 - Comp Track Loader

Genmac
GAMMA G100PO*
QUEEN G100PS*

Perkins-Sabre
4.4TGM - (RG30881)

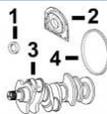
Gehl-Mfg
7810 - Skid Steer

Terex
PT-100G - Comp Track Loader

Godlike
GDP60*S - Genset

Piston Kit:

- 1) 1 x P3135M111 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M116 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M117 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

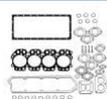
- › PZZ90239
- › PZZ90237

4) Ring Gear

- › P0410236 115T
- › P31162121 126T

5) Crankshaft Gear

- › P3117C221



1) Top Gasket Set

- › PU5LT0357

2) Bottom Gasket

- › PU5LB0381

3) Head Gasket

- › P3681E051

4) Valve Cover Gsk

- › P3681A055

5) Timing Cover Gsk

- › P3681P047

6) Oil Pan Gasket

- › P3681K037



1) Bush, Con Rod

- › P3112A005 x4

2) Bolt, Con Rod

- › P3212V003 x8
- › PT400001 x8

3) Connecting Rod

- › P4115C314
- › P4115C364



1) Bushing, Cam

- › P3112D071 x1

2) Camshaft

- › P4112K043

3) Tappet

- › P31434163

4) Pushrod

- › P31434307

5) Seal, Exh Valve

- › P2418M517 x4

6) Seal, Intk Valve

- › P2418M519 x4

7) Cam and Lifter Kit

- › P4112K043KIT

Valve Train Kit

- › PVTK425

1) Valve, Intake

- › P3142H071 x4

2) Valve, Exhaust

- › P3142A151 x4

3) Guide, Valve (Intake & Exhaust)

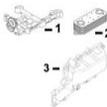
- › P3313A012 x8

4) Spring, Valve

- › P3174A016 x8

5) Lock, Valve

- › P3142W004 x16



1) Oil Pump

- › P4132F071 1

2) Oil Cooler Plate

- › P2486A217 6

3) Oil Cooler Assembly

- › P4134W025 9



1) Lift Pump

- › P2641A203 3

2) Lift Pump

- › PULPK0041 6

3) Injector

- › P2645K011 6

4) Piston Cooling Nozzle

- › P2113A003 6

5) Pre-Fuel Filter Assy

- › P130306380 6



1) Water Pump

- › PU5MW0206 3

2) Water Pump Gasket

- › P3682A011 6

3) Thermostat

- › P4133L503 6
- › P4133L507 6
- › P4133L508 6



1) Repair Sleeve

- › 105RS

2) Turbocharger

- › P2674A200 6
- › P2674A209 6
- › P2674A226 6

3) Cylinder Head

- › PZZ80267UF 6

4) Head Bolts

- › P3218A011 x7 6
- › P3218A012 x3 6



1) Glowplug

- › P2666A016 x4 6
- › P2666A017 x4 6

2) Oil Pressure Sensor

- › P2874A007 6

3) Oil Pressure Switch

- › 3a) P2848a071 6
- › 3b) p2848062 6

4) Temp Sensor

- › P2874A018 6

5) Water Temp Sensor

- › P2848A123 6
- › P2848A126 6
- › P2848A129 6

(1): Not to be used on engines with balancer units.

(3): Do Not Used with Builds RH.

(5): Use for rods that have a 63.5mm rod journal.

(7): 63.5mm rod journal, splined nose

(9): Includes 9 plate oil cooler core.

(2): Grade J, Color Coded Green.

(4): Bottom gasket contains: P3681P047 Timming Cover Gasket and P3681K037 Oil Pan Gasket.

(6): Check for proper application.

(8): 68mm rod journal, non-splined nose

(10): Use for rods that have a 68mm rod journal.

Engine Series:

1100

Engine Model:1104A-44T
(RS)**Engine Data:**TURBOCHARGED
Tier 2**Engine Info:**

4 Cyl

Engine Dimensions:Bore: 4.133
in / 105.00
mm Stroke:
5.00 in / 127.00
mm
Displacement:
269 in3/ 4.4 Lt**Build List**RS60172B -
Tractor
Wheeled**1) Engine O/H Kit**

- › POK534 Std.
- › POK535 0.50
- › POK536 1.00

2) Basic Engine Kit

- › PBK534 Std.
- › PBK535 0.50
- › PBK536 1.00
- › SPEC SHEET - 1103;
1104 ABC

**Piston & Ring Kit**

- › PT426384 Std.
- › PT426389 0.50
- › PT426388 1.00

4 Per Engine**Main Bearing Set**

- › PU5MB0033 Std.
- › PU5MB0033A 0.010
- › PU5MB0033B 0.020
- › PU5MB0033C 0.030

Set of 5 Pairs**Con Rod Bearing Set**

- › PT410927 Std.
- › PT420155 0.010
- › PT420154 0.020
- › PT420153 0.030

Set of 4 Pairs**Thrust Washer Set**

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs**1) Front Seal**

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

- › PZZ90239
- › PZZ90237

4) Ring Gear

- › P0410236 115T
- › P31162121 126T

5) Crankshaft Gear

- › P3117C221

**1) Top Gasket Set**

- › PU5LT0357

2) Bottom Gasket

- › PU5LB0383

3) Head Gasket

- › P3681E051

4) Valve Cover Gsk

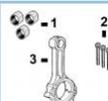
- › P3681A055

5) Timing Cover Gsk

- › P3681P046

6) Oil Pan Gasket

- › P3681K036

**1) Bush, Con Rod**

- › P3112A005 x4

2) Bolt, Con Rod

- › P3212V003 x8
- › PT400001 x8

3) Connecting Rod

- › P4115C314
- › P4115C364

**1) Bushing, Cam**

- › P3112D071 x1

2) Camshaft

- › PT424469

3) Tappet

- › P31434163

4) Pushrod

- › P31434307

5) Seal, Exh Valve

- › P2418M517 x4

6) Seal, Intk Valve

- › P2418M519 x4

Valve Train Kit

- › PVTK425

1) Valve, Intake

- › P3142H071 x4

2) Valve, Exhaust

- › P3142A151 x4

**3) Guide, Valve
(Intake & Exhaust)**

- › P3313A012 x8

4) Spring, Valve

- › P3174A016 x8

5) Lock, Valve

- › P3142W004 x16

**1) Balancer Unit Incl.
Oil Pump**

- › P4111K073

2) Oil Cooler Plate

- › P2486A217

3) Oil Cooler Assembly

- › P4134W025

**1) Lift Pump**

- › P2641A203

2) Lift Pump

- › PULPK0041

3) Injector

- › P2645K011
- › P2645K012

**4) Piston Cooling
Nozzle**

- › P2113A003

5) Pre-Fuel Filter

- › P130306380

**1) Water Pump**

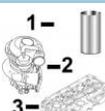
- › PU5MW0206

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › P4133L503
- › P4133L507
- › P4133L508

**1) Repair Sleeve**

- › 105RS

2) Turbocharger

- › P2674A200
- › P2674A226

3) Cylinder Head

- › PZZ80267UF

4) Head Bolts

- › P3218A011 x7
- › P3218A012 x3

**1) Glowplug**

- › P2666A016 x4

2) Oil Pressure Sensor

- › P2874A007

3) Oil Pressure Switch

- › P2848A071
- › P2848062

4) Temp Sensor

- › P2848A216
- › P2874A018

5) Water Temp Sensor

- › P2848A123
- › P2848A126
- › P2848A129

(1): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K036 Oil Pan Gasket.

(3): Check for proper application.

(5): 68mm rod journal, non-splined nose

(2): Check your connecting rod journal outside diameter for the proper connecting rod bearings.

(4): 63.5mm rod journal, splined nose.

(6): Includes 9 plate oil cooler core.

PERKINS 1104A-44T (RS) 2

Engine Series:
1100

Engine Model:
1104A-44T
(RS)

Engine Desc:
Tier 2

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl



- 1) Engine O/H Kit**
- POK427 Std.
 - POK428 0.50
 - POK429 1.00
- 2) Basic Engine Kit**
- PBK427 Std.
 - PBK428 0.50
 - PBK429 1.00
 - SPEC SHEET - 1103; 1104 ABC



- Piston & Ring Kit**
- P4115P025 Std.
 - P4115P026 0.50
 - P4115P027 1.00
- 4 Per Engine**



- Main Bearing Set**
- PU5MB0018 Std.
 - PU5MB0018A 0.010
 - PU5MB0018B 0.020
 - PU5MB0018C 0.030
- Set of 5 Pairs**



- Con Rod Bearing Set**
- PU5ME0013 Std. 4
 - PU5ME0013A 0.010 4
 - PU5ME0013B 0.020 4
 - PU5ME0013C 0.030 4
- Set of 4 Pairs**



- Thrust Washer Set**
- P31137551/61 Std.
 - P31137312/22 0.007
- Set of 2 Pairs**

Engine Dimensions:

Bore: 4.133 in / 105.00 mm

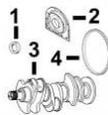
Stroke: 5.00 in / 127.00 mm

Displacement: 269 in3 / 4.4 Lt

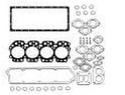
Please see page 529 for a complete list of equipment models.

Piston Kit:

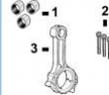
- 1) 1 x P3135M121 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M122 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M123 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.



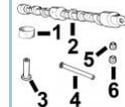
- 1) Front Seal**
- P2418F436
- 2) Rear Seal**
- P2418F704
- 3) Crankshaft Kit**
- PZZ90239
 - PZZ90237
- 4) Ring Gear**
- P31162121 126T
- 5) Crankshaft Gear**
- P3117C221



- 1) Top Gasket Set**
- PU5LT0357
- 2) Bottom Gasket**
- PU5LB0382
- 3) Head Gasket**
- P3681E051 5
- 4) Valve Cover Gsk**
- P3681A055 6
- 5) Timing Cover Gsk**
- P3681P046
- 6) Oil Pan Gasket**
- P3681K037



- 1) Bush, Con Rod**
- P3112A005 x4
- 2) Bolt, Con Rod**
- P3212V003 x8 3
 - PT400001 x8
- 3) Connecting Rod**
- P4115C314 7
 - P4115C364 7



- 1) Bushing, Cam**
- P3112D071 x1 7
- 2) Camshaft**
- P4112K043 7
- 3) Tappet**
- P31434163 7
- 4) Pushrod**
- P31434307 7
- 5) Seal, Exh Valve**
- P2418M517 x4
- 6) Seal, Intk Valve**
- P2418M519 x4
- 7) Cam and Lifter Kit**
- P4112K043KIT

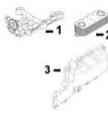
- Valve Train Kit**
- PVTK425

- 1) Valve, Intake**
- P3142H071 x4
- 2) Valve, Exhaust**
- P3142A151 x4

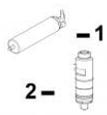
- 3) Guide, Valve (Intake & Exhaust)**
- P3313A012 x8

- 4) Spring, Valve**
- P3174A016 x8

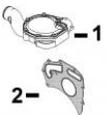
- 5) Lock, Valve**
- P3142W004 x16



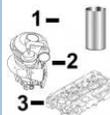
- 1) Oil Pump**
- P4132F071 1
- 2) Oil Cooler**
- P2486A217
- 3) Oil Cooler Assembly**
- P4134W025 8



- 1) Lift Pump**
- P2641A203
- 2) Lift Pump**
- PULPK0041
- 3) Injector**
- P2645K011 7
 - P2645K012 7



- 1) Water Pump**
- PU5MW0206
- 2) Water Pump Gasket**
- P3682A011 7
- 3) Thermostat**
- P4133L503 7
 - P4133L507 7
 - P4133L508 7



- 1) Repair Sleeve**
- 105RS
- 2) Turbocharger**
- P2674A200 7
 - P2674A226 7
 - P2674A431 7
- 3) Cylinder Head**
- PZZ80267UF
- 4) Head Bolts**
- P3218A011 x7
 - P3218A012 x3



- Glowplug**
- P2666A016 x4

(1): Not to be used on engines with balancer units.

(3): Bottom gasket contains: P3681P046 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(5): 63.5mm rod journal, splined nose

(7): Check application for proper usage

(2): Grade J, Color Coded Green.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings

(6): 68mm rod journal, non-splined nose

(8): Includes 9 plate oil cooler core.

PERKINS 1104A-44T (RS)

Engine Series:
1100

Engine Model:
1104A-44T
(RS) / 1104A-
44TA (RT)

Engine Data:
TURBOCHARGED
Tier 2

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
269 in3 / 4.4 Lt



1) Engine O/H Kit

- › POK424 Std.
- › POK425 0.50
- › POK426 1.00

2) Basic Engine Kit

- › PBK424 Std.
- › PBK425 0.50
- › PBK426 1.00
- › SPEC SHEET - 1103;
1104 ABC



Piston & Ring Kit

- › P4115P025 Std.
- › P4115P026 0.50
- › P4115P027 1.00

4 Per Engine



Main Bearing Set

- › PU5MB0018 Std.
- › PU5MB0018A 0.010
- › PU5MB0018B 0.020
- › PU5MB0018C 0.030

Set of 5 Pairs



Con Rod Bearing Set

- › PU5ME0013 Std. 4
- › PU5ME0013A 0.010 4
- › PU5ME0013B 0.020 4
- › PU5ME0013C 0.030 4

Set of 4 Pairs



Thrust Washer Set

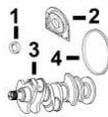
- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M121 Piston Std, 1 x PUPRK0002 Ring Set Std.
- 2) 1 x P3135M122 Piston 0.50 mm, 1 x PUPRK0002B Ring Set 0.50 mm.
- 3) 1 x P3135M123 Piston 1.00 mm, 1 x PUPRK0002D Ring Set 1.00 mm.

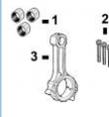
Please see page 530 for a complete list of equipment models.



- 1) **Front Seal**
› P2418F436
- 2) **Rear Seal**
› P2418F704
- 3) **Crankshaft Kit**
› PZZ90239
› PZZ90237
- 4) **Ring Gear**
› P31162121 126T
- 5) **Crankshaft Gear**
› P3117C221



- 1) **Top Gasket Set**
› PU5LT0357
- 2) **Bottom Gasket**
› PU5LB0381
- 3) **Head Gasket**
› P3681E051 5
- 4) **Valve Cover Gsk**
› P3681A055 6
- 5) **Timing Cover Gsk**
› P3681P047
- 6) **Oil Pan Gasket**
› P3681K037



- 1) **Bush, Con Rod**
› P3112A005 x4
- 2) **Bolt, Con Rod**
› P3212V003 x8
› PT400001 x8 3
- 3) **Connecting Rod**
› P4115C314 7
› P4115C364 7



- 1) **Bushing, Cam**
› P3112D071 x1
- 2) **Camshaft**
› P4112K043 7
- 3) **Tappet**
› P31434163 7
- 4) **Pushrod**
› P31434307 7
- 5) **Seal, Exh Valve**
› P2418M517 x4
- 6) **Seal, Intk Valve**
› P2418M519 x4
- 7) **Cam and Lifter Kit**
› P4112K043KIT

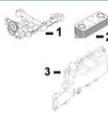
Valve Train Kit
› PVTK425

- 1) **Valve, Intake**
› P3142H071 x4
- 2) **Valve, Exhaust**
› P3142A151 x4

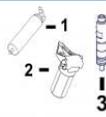
- 3) **Guide, Valve (Intake & Exhaust)**
› P3313A012 x8

- 4) **Spring, Valve**
› P3174A016 x8

- 5) **Lock, Valve**
› P3142W004 x16



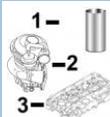
- 1) **Oil Pump**
› P4132F071 1
- 2) **Oil Cooler**
› P2486A217
- 3) **Oil Cooler Assembly**
› P4134W025 8



- 1) **Lift Pump**
› P2641A203
- 2) **Lift Pump**
› PULPK0041
- 3) **Injector**
› P2645K011 7
› P2645K012 7



- 1) **Water Pump**
› PU5MW0206
- 2) **Water Pump Gasket**
› P3682A011 7
- 3) **Thermostat**
› P4133L503 7
› P4133L507 7
› P4133L508 7



- 1) **Repair Sleeve**
› 105RS
- 2) **Turbocharger**
› P2674A200 7
› P2674A226 7
› P2674A431 7
- 3) **Cylinder Head**
› PZZ80267UF
- 4) **Head Bolts**
› P3218A011 x7 7
› P3218A012 x3 7



- Glowplug**
› P2666A016 x4

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom gasket contains: P3681P047 Timing Cover Gasket and P3681K037 Oil Pan Gasket.

(4): Check your connecting rod journal outside diameter for the proper connecting rod bearings

(5): 63.5mm rod journal, splined nose

(6): 68mm rod journal, non-splined nose

(7): Check application for proper usage

(8): Includes 9 plate oil cooler core.

PERKINS 1104D-44 (NK)

Engine Series:
1100D

Engine Model:
1104D-44 (NK)

Engine Desc:
NATURALLY
ASPIRATED

Engine Data:
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in
/ 127.00 mm
Displacement:
269 in³/ 4.4 Lt

Jlg
G5-18A



**1) Basic Kit
(Rod Brg OD 63.5 mm)**

- PBK500
- PBK501 0.50
- PBK502 1.00

3
3
3

**2) Basic Kit
(Rod Brg OD 68 mm)**

- PBK500S
- PBK501S 0.50
- PBK502S 1.00
- SPEC SHEET - 1104D (NK,NL,NM)

3
3
3



Piston & Ring Kit

- PU5PR0063 Std.
- PU5PR0063B 0.50
- PU5PR0063D 1.00

4 Per Engine



Main Bearing Set

- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- PU5ME0034 Std.
- PU5ME0034A 0.25
- PU5ME0034B 0.50
- PU5ME0034C 0.75
- PT410927 Std.
- PT420155 0.25
- PT420154 0.50
- PT420153 0.75

Set of 4 Pairs



Thrust Washer Set

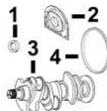
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

4
4
4
5
5
5

Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M165 | Piston Std, | 1 x <u>PUPRK0003</u> | Ring Set Std. |
| 2) 1 x P3135M166 | Piston 0.50 mm, | 1 x <u>PUPRK0003B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M167 | Piston 1.00 mm, | 1 x <u>PUPRK0003D</u> | Ring Set 1.00 mm. |



- 1) **Front Seal**
▸ P2418F436
- 2) **Rear Seal**
▸ P2418F704
- 3) **Crankshaft Kit**
▸ PZZ90239
▸ PZZ90237
- 4) **Ring Gear**
▸ P31162121 126T
- 5) **Crankshaft Gear**
▸ P3117C221

4
5

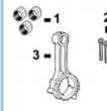


- 1) **Top Gasket Set**
▸ PU5LT0357
- 2) **Bottom Gasket**
▸ PU5LB1104D
- 3) **Head Gasket**
▸ P3681E051
- 4) **Valve Cover Gsk**
▸ P3681A055
- 5) **Timing Cover Gsk**
▸ P3681P046
▸ P3681P047
- 6) **Oil Pan Gasket**
▸ P3681K036
▸ P3681K037

3

6
6

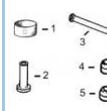
6
6



- 1) **Bush, Con Rod**
▸ P3112A005 x4
- 2) **Bolt, Con Rod**
▸ P3212V003 x8
▸ PT400001 x8
- 3) **Connecting Rod**
▸ P4115C314
▸ P4115C364

6
6

4
5



- 1) **Bushing, Cam**
▸ P3112D071 x1
- 2) **Tappet**
▸ P3142U061
- 3) **Pushrod**
▸ P4132V011
- 4) **Seal, Valve Exhaust**
▸ P2418M517 x4
- 5) **Seal, Valve Intake**
▸ P2418M519 x4
- 6) **Camshaft**
▸ P4112K074
- 7) **Cam and Lifter Kit**
▸ P4112K074KIT

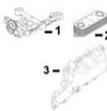
Valve Train

- 1) **Valve, Intake**
▸ P3142H101 x4
- 2) **Valve, Exhaust**
▸ P3142A171 x4

- 3) **Guide, Valve (Intake & Exhaust)**
▸ P3313A012 x8

- 4) **Spring, Valve**
▸ P3174A031 x8

- 5) **Lock, Valve**
▸ P2714A002 x16



- 1) **Oil Pump**
▸ P4132F073
- 2) **Oil Cooler**
▸ P2486A215 5 plate
▸ P2486A217 9 plate
- 3) **Oil Cooler Assembly**
▸ P4134W025

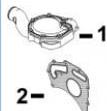
1

6
6

8

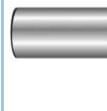


- Lift Pump**
▸ PULPK0041

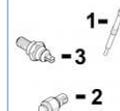


- 1) **Water Pump**
▸ PU5MW0208
- 2) **Water Pump Gasket**
▸ P3682A011
- 3) **Thermostat**
▸ P4133L503
▸ P4133L507
▸ P4133L508

6
6
6



- Repair Sleeve**
▸ 105RS
- 2) **Head Bolts**
▸ P3218A011 x7
▸ P3218A012 x3



- 1) **Glowplug**
▸ P2666A016 x4
▸ P2666A017 x4
- 2) **Oil Pressure Switch**
▸ P2848A071
- 3) **Water Temp Sensor**
▸ P2848A123
▸ P2848A126
▸ P2848A129

6

6

6

6

6

6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

(8): Includes 9 plate oil cooler core.

PERKINS 1104D-44T (NL), 1104D-44TA (NM)

Engine Series:
1100D

Engine Model:
1104D-44T
(NL) / 1104D-44TA (NM)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt



1) Basic Kit (Rod Brg OD 63.5 mm)

- PBK503 Std. 3
- PBK504 0.50 3
- PBK505 1.00 3

2) Basic Kit (Rod Brg OD 68 mm)

- PBK503S Std. 3
- PBK504S 0.50 3
- PBK505S 1.00 3
- SPEC SHEET - 1104D (NK,NL,NM)



Piston & Ring Kit

- PU5PR0062 Std.
- PU5PR0062B 0.50
- PU5PR0062D 1.00

4 Per Engine



Main Bearing Set

- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- PU5ME0034 Std. 4
- PU5ME0034A 0.25 4
- PU5ME0034B 0.50 4
- PU5ME0034C 0.75 4
- PT410927 Std. 5
- PT420155 0.25 5
- PT420154 0.50 5
- PT420153 0.75 5

Set of 4 Pairs



Thrust Washer Set

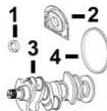
- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

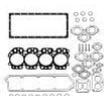
Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M161 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M162 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M163 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |

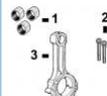
Please see page 531 for a complete list of equipment models.



- 1) **Front Seal**
▸ P2418F436
- 2) **Rear Seal**
▸ P2418F704
- 3) **Crankshaft Kit**
▸ PZZ90239
▸ PZZ90237
- 4) **Ring Gear**
▸ P0410236 115T
▸ P31162121 126T
- 5) **Crankshaft Gear**
▸ P3117C221



- 1) **Top Gasket Set**
▸ PU5LT0357
- 2) **Bottom Gasket**
▸ PU5LB1104D 3
- 3) **Head Gasket**
▸ P3681E051 4
- 4) **Valve Cover Gsk**
▸ P3681A055 5
- 5) **Timing Cover Gsk**
▸ P3681P046 7
▸ P3681P047 7
- 6) **Oil Pan Gasket**
▸ P3681K036 7
▸ P3681K037 7



- 1) **Bush, Con Rod**
▸ P3112A005 x4 6
- 2) **Bolt, Con Rod**
▸ P3212V003 7
▸ PT400001 x8 7
- 3) **Connecting Rod**
▸ P4115C314 4
▸ P4115C364 5



- 1) **Bushing, Cam**
▸ P3112D071 x1 7
- 2) **Tappet**
▸ P3142U061 7
- 3) **Pushrod**
▸ P3142V011 7
- 4) **Seal, Exh Valve**
▸ P2418M517 x4 4
- 5) **Seal, Intk Valve**
▸ P2418M519 x4 5
- 6) **Camshaft**
▸ P4112K072 7
▸ P4112K077 7
▸ P4112K078 7
- 7) **Cam and Lifter Kit**
▸ P4112K072KIT 7
▸ P4112K077KIT 7
▸ P4112K078KIT 7

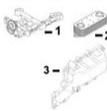
Valve Train Kit

- 1) **Valve, Intake**
▸ P3142H101 x4
- 2) **Valve, Exhaust**
▸ P3142A171 x4

- 3) **Guide, Valve (Intake & Exhaust)**
▸ P3313A012 x8

- 4) **Spring, Valve**
▸ P3174A031 x8

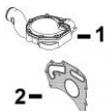
- 5) **Lock, Valve**
▸ P2714A002 x16



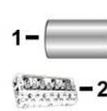
- 1) **Oil Pump**
▸ P4132F071 1
- 2) **Oil Cooler Plate**
▸ P2486A217 9
- 3) **Oil Cooler Assembly**
▸ P4134W025



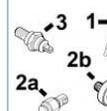
- 1) **Lift Pump**
▸ P2641A203 7
▸ PULPK0041 7
- 2) **Injector**
▸ P2645K025 7
▸ P2645K026 7
- 3) **Turbocharger**
▸ P2674A827 7
▸ P2674A835 7
▸ P2674A845 7



- 1) **Water Pump**
▸ PU5MW0208 7
- 2) **Water Pump Gasket**
▸ P3682A011 7
- 3) **Thermostat**
▸ P4133L503 7
▸ P4133L507 7
▸ P4133L508 7



- Repair Sleeve**
- 1) 105RS
- 2) Cylinder Head**
- PZZ8028OUF
- 3) Head Bolts**
- P3218A011 x7 7
 - P3218A012 x3 7



- 1) **Glowplug**
▸ P2666A016 x4 7
▸ P2666A017 x4 7
- 2) **Oil Pressure Switch**
▸ 2a) P2848A071 7
▸ 2b) P2848062 7
- 3) **Water Temp Sensor**
▸ P2848A123 7
▸ P2848A126 7
▸ P2848A129 7

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): To ESN U056074T.

(7): Check application for proper usage.

(8): For use with Con Rod P4115C314.

(9): Includes 9 plate oil cooler core.

Engine Series:
1100D

Engine Model:
1104D-E44T (NH) / 1104D-E44TA (NJ)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt



1) **Basic Kit**
(Rod Brg OD 63.5 mm)

- PBK506 Std.
- PBK507 0.50
- PBK508 1.00

3
3
3

2) **Basic Kit**
(Rod Brg OD 68 mm)

- PBK506S Std.
- PBK507S 0.50
- PBK508S 1.00
- SPEC SHEET - 1104D (NH,NJ)

3
3



Piston & Ring Kit

- PU5PR0058 Std.
- PU5PR0058B 0.50
- PU5PR0058D 1.00

4 Per Engine



Main Bearing Set

- PU5MB0033 Std.
- PU5MB0033A 0.25
- PU5MB0033B 0.50
- PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- PU5ME0034 Std.
- PU5ME0034A 0.25
- PU5ME0034B 0.50
- PU5ME0034C 0.75
- PT410927 Std.
- PT420155 0.25
- PT420154 0.50
- PT420153 0.75

Set of 4 Pairs



Thrust Washer Set

- P31137551/61 Std.
- P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M141 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M142 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M143 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |

Asphalt Pavers

Vogele Super 1600-2
Vogele Super 1603-2



- 1) **Front Seal**
▸ P2418F436
- 2) **Rear Seal**
▸ P2418F704
- 3) **Crankshaft Kit**
▸ PZZ90239
▸ PZZ90237
- 4) **Ring Gear**
▸ P0410236 115T
▸ P31162121 126T
- 5) **Crankshaft Gear**
▸ P3117C221

4
5



- 1) **Top Gasket Set**
▸ PU5LT1104D
- 2) **Bottom Gasket**
▸ PU5LB1104D
- 3) **Head Gasket**
▸ P3681E074
- 4) **Valve Cover Gsk**
▸ P3681A067
- 5) **Timing Cover Gsk**
▸ P3681P046
▸ P3681P047
- 6) **Oil Pan Gasket**
▸ P3681K036
▸ P3681K037

3

6
6

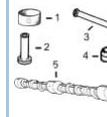
6
6



- 1) **Bush, Con Rod**
▸ P3112A005 x4
- 2) **Bolt, Con Rod**
▸ P3212V003 x8
▸ PT400001 x8
- 3) **Connecting Rod**
▸ P4115C314
▸ P4115C364
- 4) **Tensioner, Bolt**
▸ PT411130

6
6

4
5



- 1) **Bushing, Cam**
▸ P3112D071 x1
- 2) **Tappet**
▸ P3142U061
- 3) **Pushrod**
▸ P3142V011
- 4) **Seal, Valve Stem**
▸ P2418M522 x16
- 5) **Camshaft**
▸ P4112K073
- 6) **Cam and Lifter Kit**
▸ P4112K073KIT

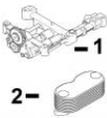
Valve Train Kit

- 1) **Valve, Intake**
▸ P3142H091 x8
- 2) **Valve, Exhaust**
▸ P3142A181 x8

- 3) **Guide, Valve (Intake & Exhaust)**
▸ P3313A035 x16

- 4) **Valve, Insert In**
▸ P3314A251 x8
- 5) **Valve, Insert Ex**
▸ P3314A261 x8

- 6) **Spring, Valve**
▸ P3174A028 x16
- 7) **Lock, Valve**
▸ P3142W005 x32



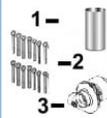
- 1) **Oil Pump**
▸ P4132F071
- 2) **Oil Cooler**
▸ P2486A015

1



- 1) **Water Pump**
▸ PU5MW0204
- 2) **Water Pump Gasket**
▸ P3682A011
- 3) **Thermostat**
▸ PT413847
▸ P4133L066
▸ P4133L067
- 4) **Thermostat Housing Gasket**
▸ P3682A022

6
6
6



- 1) **Repair Sleeve**
▸ 105RS
- 2) **Head Bolts**
▸ P3218A011 x10
- 3) **Turbocharger**
▸ P2674A812

6



- 1) **Glow Plug**
▸ P2666A023 x4
▸ P2666A024 x4
- 2) **Air Temp Sensor**
▸ PU5MK1089
- 3) **Injector**
▸ P2645A746
▸ P2645A738

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6

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6

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6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

PERKINS 1104D-E44TA (NJ) 0059

Engine Series:
1100D

Engine Model:
1104D-E44T
(NJ)

Engine Desc:
Tier 3

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt



1) **Basic Kit**
(Rod Brg OD 63.5 mm)

- ▶ PBK512 Std.
- ▶ PBK513 0.50
- ▶ PBK514 1.00

3
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3

2) **Basic Kit**
(Rod Brg OD 68 mm)

- ▶ PBK512S Std.
- ▶ PBK513S 0.50
- ▶ PBK514S 1.00
- ▶ SPEC SHEET - 1104D (NH,NJ)

3
3
3



Piston & Ring Kit

- ▶ PU5PR0059 Std.
- ▶ PU5PR0059B 0.50
- ▶ PU5PR0059D 1.00

4 Per Engine



Main Bearing Set

- ▶ PU5MB0033 Std.
- ▶ PU5MB0033A 0.25
- ▶ PU5MB0033B 0.50
- ▶ PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0034 Std.
- ▶ PU5ME0034A 0.25
- ▶ PU5ME0034B 0.50
- ▶ PU5ME0034C 0.75
- ▶ PT410927 Std.
- ▶ PT420155 0.25
- ▶ PT420154 0.50
- ▶ PT420153 0.75

4
4
4
5
5
5
5



Thrust Washer Set

- ▶ P31137551/61 Std.
- ▶ P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M135 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M136 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M137 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |

Aksa - Gensets

APD-AT56 - Generator

Grandwatt

G50XHD - Genset



- 1) **Front Seal**
▶ P2418F436
- 2) **Rear Seal**
▶ P2418F704
- 3) **Crankshaft Kit**
▶ PZZ90239
▶ PZZ90237
- 4) **Ring Gear**
▶ P0410236 115T
▶ P31162121 126T
- 5) **Crankshaft Gear**
▶ P3117C221

4
5



- 1) **Top Gasket Set**
▶ PU5LT1104D
- 2) **Bottom Gasket**
▶ PU5LB1104D
- 3) **Head Gasket**
▶ P3681E074
- 4) **Valve Cover Gsk**
▶ P3681A067
- 5) **Timing Cover Gsk**
▶ P3681P046
▶ P3681P047
- 6) **Oil Pan Gasket**
▶ P3681K036
▶ P3681K037

3

6
6

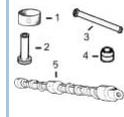
6
6



- 1) **Bush, Con Rod**
▶ P3112A005 x4
- 2) **Bolt, Con Rod**
▶ P3212V003 x8
▶ PT400001 x8
- 3) **Connecting Rod**
▶ P4115C314
▶ P4115C364
- 4) **Tensioner, Belt**
▶ PT411130

6
6

4
5



- 1) **Bushing, Cam**
▶ P3112D071 x1
- 2) **Tappet**
▶ P3142U061
- 3) **Pushrod**
▶ P3142V011
- 4) **Seal, Valve Stem**
▶ P2418M522 x16
- 5) **Camshaft**
▶ P4112K073
- 6) **Cam and Lifter Kit**
▶ P4112K073KIT

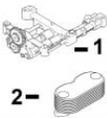
Valve Train

- 1) **Valve, Intake**
▶ P3142H091 x8
- 2) **Valve, Exhaust**
▶ P3142A181 x8

- 3) **Guide, Valve (Intake & Exhaust)**
▶ P3313A035 x16

- 4) **Valve, Insert In**
▶ P3314A251 x8
- 5) **Valve, Insert Ex**
▶ P3314A261 x8

- 6) **Spring, Valve**
▶ P3174A028 x16
- 7) **Lock, Valve**
▶ P3142W005 x32



- 1) **Oil Pump**
▶ P4132F071
- 2) **Oil Cooler**
▶ P2486A015

1



- 1) **Water Pump**
▶ PU5MW0204
- 2) **Water Pump Gasket**
▶ P3682A011
- 3) **Thermostat**
▶ PT413847
▶ P4133L066
▶ P4133L067
- 4) **Thermostat Housing Gasket**
▶ P3682A022

6
6
6



- Repair Sleeve**
- ▶ 105RS
 - 2) **Head Bolts**
▶ P3218A011 x10



- 1) **Glow Plug**
▶ P2666A023 x4
▶ P2666A024 x4
- 2) **Air Temp Sensor**
▶ PU5MK1089
- 3) **Injector**

6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

PERKINS 1104D-E44T (NH), 1104D-E44TA (NJ) 0060

Engine Series:
1100D

Engine Model:
1104D-E44T (NH) / 1104D-E44TA (NJ)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in³ / 4.4 Lt

Please see page 532 for a complete list of equipment models.



1) Basic Kit (Rod Brg OD 63.5 mm)

- ▶ PBK509 Std.
- ▶ PBK510 0.50
- ▶ PBK511 1.00

3
3
3

2) Basic Kit (Rod Brg OD 68 mm)

- ▶ PBK509S Std.
- ▶ PBK510S 0.50
- ▶ PBK511S 1.00
- ▶ SPEC SHEET - 1104D (NH,NJ)

3
3
3



Piston & Ring Kit

- ▶ PU5PR0060 Std.
- ▶ PU5PR0060B 0.50
- ▶ PU5PR0060D 1.00

4 Per Engine



Main Bearing Set

- ▶ PU5MB0033 Std.
- ▶ PU5MB0033A 0.25
- ▶ PU5MB0033B 0.50
- ▶ PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- ▶ PU5ME0034 Std.
- ▶ PU5ME0034A 0.25
- ▶ PU5ME0034B 0.50
- ▶ PU5ME0034C 0.75
- ▶ PT410927 Std.
- ▶ PT420155 0.25
- ▶ PT420154 0.50
- ▶ PT420153 0.75

4
4
4
4
5
5
5
5



Thrust Washer Set

- ▶ P31137551/61 Std.
- ▶ P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M151 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M152 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M153 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |



- 1) **Front Seal**
▶ P2418F436
- 2) **Rear Seal**
▶ P2418F704
- 3) **Crankshaft Kit**
▶ PZZ90239
▶ PZZ90237
- 4) **Ring Gear**
▶ P0410236 115T
▶ P31162121 126T
- 5) **Crankshaft Gear**
▶ P3117C221

4
5



- 1) **Top Gasket Set**
▶ PU5LT1104D
- 2) **Bottom Gasket**
▶ PU5LB1104D
- 3) **Head Gasket**
▶ P3681E074
- 4) **Valve Cover Gsk**
▶ P3681A067
- 5) **Timing Cover Gsk**
▶ P3681P046
▶ P3681P047
- 6) **Oil Pan Gasket**
▶ P3681K036
▶ P3681K037

3

6
6

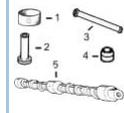
6
6



- 1) **Bush, Con Rod**
▶ P3112A005 x4
- 2) **Bolt, Con Rod**
▶ P3212V003 x8
▶ PT400001 x8
- 3) **Connecting Rod**
▶ P4115C314
▶ P4115C364
- 4) **Tensioner, Belt**
▶ PT411130

6
6

4
5



- 1) **Bushing, Cam**
▶ P3112D071 x1
- 2) **Tappet**
▶ P3142U061
- 3) **Pushrod**
▶ P3142V011
- 4) **Seal, Valve Stem**
▶ P2418M522 x16
- 5) **Camshaft**
▶ P4112K073
- 6) **Cam and Lifter Kit**
▶ P4112K073KIT

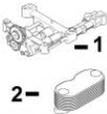
Valve Train Kit

- 1) **Valve, Intake**
▶ P3142H091 x8
- 2) **Valve, Exhaust**
▶ P3142A181 x8

- 3) **Guide, Valve (Intake & Exhaust)**
▶ P3313A035 x16

- 4) **Valve, Insert In**
▶ P3314A251 x8
- 5) **Valve, Insert Ex**
▶ P3314A261 x8

- 6) **Spring, Valve**
▶ P3174A028 x16
- 7) **Lock, Valve**
▶ P3142W005 x32



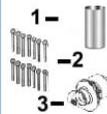
- 1) **Oil Pump**
▶ P4132F071
- 2) **Oil Cooler**
▶ P2486A015

1



- 1) **Water Pump**
▶ PU5MW0204
- 2) **Water Pump Gasket**
▶ P3682A011
- 3) **Thermostat**
▶ PT413847
▶ P4133L066
▶ P4133L067
- 4) **Thermostat Housing Gasket**
▶ P3682A022

6
6
6



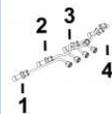
- 1) **Repair Sleeve**
▶ 105RS
- 2) **Head Bolts**
▶ P3218A011 x10
- 3) **Turbocharger**
▶ P2674A805
▶ P2674A812
▶ P2674A808

6
6
6



- 1) **Glow Plug**
▶ P2666A023 x4
▶ P2666A024 x4
- 2) **Air Temp Sensor**
▶ PU5MK1089
- 3) **Injector**
▶ P2645A746
▶ P2645A738
- 4) **Piston Cooling Nozzle**
▶ P2113A003

6
6
6



- Fuel Lines**
- ▶ 1) P3525A211
 - ▶ 2) P3525A212
 - ▶ 3) P3525A222
 - ▶ 4) P3525A223

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

(8): Check application for proper usage.

PERKINS 1104D-E44TA (NJ) 0061

Engine Series:
1100D

Engine Model:
1104D-E44TA
(NJ)

Engine Desc:
Tier 3

Engine Data:
TURBOCHARGED

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt

Asphalt Pavers

Vogele Super 1600-2

Vogele Super 1603-2

Atlas Copco Generator QAS100



1) Basic Kit (Rod Brg OD 63.5 mm)

- › PBK515 Std.
- › PBK516 0.50
- › PBK517 1.00

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2) Basic Kit (Rod Brg OD 68 mm)

- › PBK515S Std.
- › PBK516S 0.50
- › PBK517S 1.00
- › SPEC SHEET - 1104D (NH,NJ)

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Piston & Ring Kit

- › PU5PR0061 Std.
- › PU5PR0061B 0.50
- › PU5PR0061D 1.00

4 Per Engine



Main Bearing Set

- › PU5MB0033 Std.
- › PU5MB0033A 0.25
- › PU5MB0033B 0.50
- › PU5MB0033C 0.75

Set of 5 Pairs



Con Rod Bearing Set

- › PU5ME0034 Std.
- › PU5ME0034A 0.25
- › PU5ME0034B 0.50
- › PU5ME0034C 0.75
- › PT410927 Std.
- › PT420155 0.25
- › PT420154 0.50
- › PT420153 0.75

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Thrust Washer Set

- › P31137551/61 Std.
- › P31137312/22 0.007

Set of 2 Pairs

Piston Kit:

- 1) 1 x P3135M145 Piston Std, 1 x PUPRK0005 Ring Set Std.
- 2) 1 x P3135M146 Piston 0.50 mm, 1 x PUPRK0005B Ring Set 0.50 mm.
- 3) 1 x P3135M147 Piston 1.00 mm, 1 x PUPRK0005D Ring Set 1.00 mm.



1) Front Seal

- › P2418F436

2) Rear Seal

- › P2418F704

3) Crankshaft Kit

- › PZZ90239
- › PZZ90237

4) Ring Gear

- › P0410236 115T
- › P31162121 126T

5) Crankshaft Gear

- › P3117C221

6
5



1) Top Gasket Set

- › PU5LT1104D

2) Bottom Gasket

- › PU5LB1104D

3) Head Gasket

- › P3681E074

4) Valve Cover Gsk

- › P3681A067

5) Timing Cover Gsk

- › P3681P046
- › P3681P047

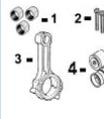
6) Oil Pan Gasket

- › P3681K036
- › P3681K037

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6



1) Bush, Con Rod

- › P3112A005 x4

2) Bolt, Con Rod

- › P3212V003 x8
- › PT400001 x8

3) Connecting Rod

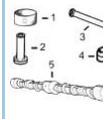
- › P4115C314
- › P4115C364

4) Tensioner, Belt

- › PT411130

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6

4
5



1) Bushing, Cam

- › P3112D071 x1

2) Tappet

- › P3142U061

3) Pushrod

- › P3142V011

4) Seal, Valve Stem

- › P2418M522 x16

5) Camshaft

- › P4112K073

6) Cam and Lifter Kit

- › P4112K073KIT

Valve Train

1) Valve, Intake

- › P3142H091 x8

2) Valve, Exhaust

- › P3142A181 x8

3) Guide, Valve (Intake & Exhaust)

- › P3313A035 x16

4) Valve, Insert In

- › P3314A251 x8

5) Valve, Insert Ex

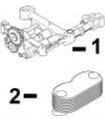
- › P3314A261 x8

6) Spring, Valve

- › P3174A028 x16

7) Lock, Valve

- › P3142W005 x32



1) Oil Pump

- › P4132F071

2) Oil Cooler

- › P2486A015

1



1) Water Pump

- › PU5MW0204

2) Water Pump Gasket

- › P3682A011

3) Thermostat

- › PT413847

- › P4133L066
- › P4133L067

4) Thermostat Housing Gasket

- › P3682A022

6
6
6



1) Repair Sleeve

- › 105RS

2) Turbocharger

- › P2674A805
- › P2674A807

6
6



1) Glow Plug

- › P2666A023 x4
- › P2666A024 x4

2) Air Temp Sensor

- › PU5MK1089

3) Injector

- › P2113A003

Fuel Lines

- › 1) P3525A211
- › 2) P3525A212
- › 3) P3525A222
- › 4) P3525A223

6

(1): Not to be used on engines with balancer units.

(2): Grade J, Color Coded Green.

(3): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Connecting rod journal outside diameter is 63.48 mm / 2.4991 in.

(5): Connecting rod journal outside diameter is 67.99 mm / 2.6768 in.

(6): Check build list for proper application.

(7): For use with Con Rod P4115C314.

PERKINS 1104D-E44T (NP), 1104D-E44TA (NR) T417728

Engine Series:
1100D

Engine Model:
1104D-E44T (NP) / 1104D-E44TA (NR)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
4 Cyl

Engine Dimensions:

Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 269 in3 / 4.4 Lt



- 1) Basic Kit**
- ▶ PBK531 Std.
 - ▶ PBK532 0.50
 - ▶ PBK533 1.00
 - ▶ SPEC SHEET - 1104D-E44T (NP)



- Piston & Ring Kit**
- ▶ PT417728 Std.
 - ▶ PT417955 0.50
 - ▶ PT418001 1.00
- 4 Per Engine**



- Main Bearing Set**
- ▶ PU5MB0033 Std.
 - ▶ PU5MB0033A 0.25
 - ▶ PU5MB0033B 0.50
 - ▶ PU5MB0033C 0.75
- Set of 5 Pairs**



- Con Rod Bearing Set**
- ▶ PT410927 Std.
 - ▶ PT420155 0.25
 - ▶ PT420154 0.50
 - ▶ PT420153 0.75



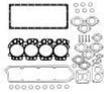
- Thrust Washer Set**
- ▶ PU5TW0002 Std.
 - ▶ PU5TW0002B O/S
- Set of 2 Pairs**

Piston Kit:

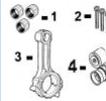
- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M151 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M152 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M153 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |



- 1) Front Seal**
- ▶ P2418F554
- 2) Rear Seal**
- ▶ P2418F704
- 3) Crankshaft Kit**
- ▶ PT415205
- 4) Ring Gear**
- ▶ P0410236 115T
 - ▶ P31162121 126T



- 1) Top Gasket Set**
- ▶ PU5LT1104D
- 2) Bottom Gasket**
- ▶ PU5LB1104D
- 3) Head Gasket**
- ▶ P3681E074
- 4) Valve Cover Gsk**
- ▶ PT414788
- 5) Timing Cover Gsk**
- ▶ P3681P046
 - ▶ P3681P047
- 6) Oil Pan Gasket**
- ▶ P3681K036
 - ▶ P3681K037



- 1) Bush, Con Rod**
- ▶ P3112A005 x4
- 2) Bolt, Con Rod**
- ▶ PT400001 x8
- 3) Connecting Rod**
- ▶ P4115C364
- 4) Tensioner, Belt**
- ▶ PT411130



- 1) Bushing, Cam**
- ▶ P3112D071 x1
- 2) Tappet**
- ▶ P3142U061
- 3) Pushrod**
- ▶ P3142V011
- 4) Seal, Valve Stem**
- ▶ P2418M522 x16

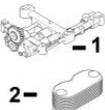
Valve Train Kit

- 1) Valve, Intake**
- ▶ P3142H091 x8
- 2) Valve, Exhaust**
- ▶ P3142A181 x8

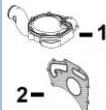
- 3) Guide, Valve (Intake & Exhaust)**
- ▶ P3313A035 x16

- 4) Valve, Insert In**
- 5) Valve, Insert Ex**
- ▶ 4) P3314A251 x8
 - ▶ 5) P3314A261 x8

- 6) Spring, Valve**
- ▶ P3174A028 x16
- 7) Lock, Valve**
- ▶ P3142W005 x32



- 1) Oil Pump**
- ▶ P4132F071
- 2) Oil Cooler**
- ▶ P2486A015



- 1) Water Pump**
- ▶ PU5MW0204
- 2) Water Pump Gasket**
- ▶ P3682A011
- 3) Thermostat**
- ▶ PT413847
- 4) Thermostat Housing Gasket**
- ▶ P3682A022



- 1) Repair Sleeve**
- ▶ 105RS
- 2) Head Bolts**
- ▶ P3218A011 x10



- 1) Glow Plug**
- ▶ PT419164 x4
- 2) Air Temp Sensor**
- ▶ PU5MK1089

(1): Not to be used on engines with balancer units.

(3): Check application for proper usage.

(2): Bottom Gasket Set does not contains the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(4): Check build list for proper application

PERKINS 1106-E60TA VK BUILDS

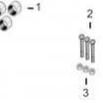
Engine Series:
1100

Engine Model:
1106-E60TA (VK)

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.9370 in / 100.00 mm

Please see page 533 for a complete list of equipment models.

 <p>1) Engine O/H Kit • POK649</p> <p>2) Basic Engine Kit • PBK649 • SPEC SHEET - 1106 (VK)</p>	 <p>Piston & Ring Kit • PCK0162</p> <p>Consists of:</p> <p>a) P4115P001 b) PUPRK0001 c) P3135X062</p> <p>6 Per Engine</p>	 <p>Main Bearing Set • PU5MB0030 Std. • PU5MB0030A 0.010 • PU5MB0030B 0.020 • PU5MB0030C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • PU5ME0003 Std. • PU5ME0003A 0.010 • PU5ME0003B 0.020 • PU5ME0003C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 Std. • P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F701</p> <p>3) Crankshaft Kit • PZZ90228</p> <p>4) Ring Gear • P31162121 126T</p>	 <p>1) Top Gasket Set • PU5LT0349</p> <p>2) Bottom Gasket • PU5LB0374</p> <p>3) Head Gasket • P3681E043</p> <p>4) Oil Pan Gasket • P3681M007</p>	 <p>1) Bush, Con Rod • P3112E011 x6</p> <p>2) Bolt, Con Rod • P32762144 x12</p> <p>3) Nut, Con Rod • P33221328 x12</p>	 <p>1) Bushing, Cam • P31134132 x1</p> <p>2) Tappet • P31434163</p> <p>3) Pushrod • P31434307</p> <p>4) Seal, Exh Valve • P2418M505 x6</p> <p>5) Seal, Intk Valve • P2418M506 x6</p> <p>6) Camshaft • P3141F022</p> <p>7) Cam and Lifter Kit • P3141F022KIT</p>	
<p>Valve Train Kit • PVTK620</p>	<p>1) Valve, Intake • P3142L081 x6</p> <p>2) Valve, Exhaust • P3142D031 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3313A012 x6 • 3b) P3318A705 x6</p>	<p>4) Spring, Valve • P3174P409 x12</p>	<p>5) Lock, Valve • P3142W004 x24</p>
 <p>1) Oil Pump • P4132F067</p> <p>2) Oil Cooler • P2486A993</p>	 <p>1) Lift Pump • PULPK0036</p> <p>2) Injector • P2645F027</p>	 <p>1) Water Pump • PU5MW0196</p> <p>2) Water Pump Gasket • P3687Y016</p>	 <p>1) Temp Sensor • P2874A018</p> <p>2) Oil Pressure Sensor • P2874A007</p>	 <p>1) Thermostat • P2485C034</p> <p>2) Piston Cooling Nozzle • P3861A027</p>

(1): To ESN U090153J.

(3): Flanged, Semi Finished Liner available, P3135X063

(5): Contains P3141F022 x 1 and P31434163 x 12.

(2): For Builds (VK37779 to VK37787) use U5LB0370.

(4): Check for proper application.

PERKINS 1106-E60TA VK BUILDS FRACTURED SPLIT ROD

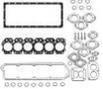
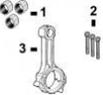
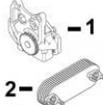
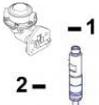
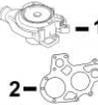
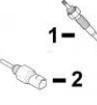
Engine Series:
1100

Engine Model:
1106-E60TA (VK)

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.9370 in / 100.00 mm

Please see page 534 for a complete list of equipment models.

 <p>1) Engine O/H Kit • POK694</p> <p>2) Basic Engine Kit • PBK694 • SPEC SHEET - 1106 (VK)</p>	 <p>Piston & Ring Kit • PCK0162</p> <p>Consists of:</p> <p>a) P4115P001 b) PUPRK0001 c) P3135X062</p> <p>6 Per Engine</p>	 <p>Main Bearing Set • PU5MB0030 Std. • PU5MB0030A 0.010 • PU5MB0030B 0.020 • PU5MB0030C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • PU5ME0025 Std. • PU5ME0025A 0.010 • PU5ME0025B 0.020 • PU5ME0025C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 Std. • P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F701</p> <p>3) Crankshaft Kit • PZZ90228</p> <p>4) Ring Gear • P31162121 126T</p>	 <p>1) Top Gasket Set • PU5LT0349</p> <p>2) Bottom Gasket • PU5LB0374</p> <p>3) Head Gasket • P3681E043</p> <p>4) Oil Pan Gasket • P3681M007</p>	 <p>1) Bush, Con Rod • P3112A005 x6</p> <p>2) Bolt, Con Rod • P3212V003 x12</p> <p>3) Con Rod Kit • P4115C314</p>	 <p>1) Bushing, Cam • P31134132 x1</p> <p>2) Tappet • P31434163</p> <p>3) Pushrod • P31434307</p> <p>4) Seal, Exh Valve • P2418M505 x6</p> <p>5) Seal, Intk Valve • P2418M506 x6</p> <p>6) Camshaft • P3141F022</p> <p>7) Cam and Lifter Kit • P3141F022KIT</p>	
<p>Valve Train Kit • PVTK620</p>	<p>1) Valve, Intake • P3142L081 x6</p> <p>2) Valve, Exhaust • P3142D031 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3313A012 x6 • 3b) P3318A705 x6</p>	<p>4) Spring, Valve • P3174P409 x12</p>	<p>5) Lock, Valve • P3142W004 x24</p>
 <p>1) Oil Pump • P4132F067</p> <p>2) Oil Cooler • P2486A993</p>	 <p>1) Lift Pump • PULPK0036</p> <p>2) Injector • P2645F027</p>	 <p>1) Water Pump • PU5MW0196</p> <p>2) Water Pump Gasket • P3687Y016</p>	 <p>1) Temp Sensor • P2874A018</p> <p>2) Oil Pressure Sensor • P2874A007</p>	 <p>1) Thermostat • P2485C034</p> <p>2) Piston Cooling Nozzle • P3861A027</p>

(1): From ESN U090154J.

(3): Grade J, Color Coded Green.

(5): Check for proper application.

(2): For Builds (VK37779 to VK37787) use U5LB0370.

(4): Flanged, Semi Finished Liner available, P3135X063

(6): Contains P3141F022 x 1 and P31434163 x 12.

PERKINS 1106C-E66TA (PK), 1106D-E66TA (PJ) 0058

Engine Series:
1106D

Engine Model:
1106C - E66TA (PK) / 1106D - E66TA (PJ)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Aksa
APD-EPAP150
APD-EPAP150S
APD-EPAP178
APD-ULP150
AT150
Asphalt Pavers
Vogele Super 1800-2
Vogele Super 1803-2

Godlike
GDP135*S - Genset
GDP150*S - Genset
GDP180*S - Genset



Basic Kit
(Rod Brg OD 63.5 mm)
 ▶ PBK700
 ▶ PBK701 0.50
 ▶ PBK702 1.00
 ▶ SPEC SHEET - 1106C (PK)

1
1
1



Piston & Ring Kit
 ▶ PU5PR0058 Std.
 ▶ PU5PR0058B 0.50
 ▶ PU5PR0058D 1.00
6 Per Engine



Main Bearing Set
 ▶ PT409189 Std.
 ▶ PT418680 0.010
 ▶ PT418696 0.020
 ▶ PT418697 0.030
Set of 7 Pairs



Con Rod Bearing Set
 ▶ PT409188 Std.
 ▶ PT400524 0.010
 ▶ PT400525 0.020
 ▶ PT400526 0.030
Set of 6 Pairs



Thrust Washer Set
 ▶ PT409186 Std.
 ▶ PT418971 0.007
Set of 2 Pcs

Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M141 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M142 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M143 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |



- 1) Front Seal**
 ▶ P2418F554
2) Rear Seal
 ▶ P2418F705
3) Crankshaft Kit
 ▶ PZZ90242
 ▶ P4181V019
4) Ring Gear
 ▶ P31162121 126T

2
2



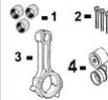
- 1) Top Gasket Set**
 ▶ PU5LT1106D
2) Bottom Gasket
 ▶ PU5LB1106D
3) Head Gasket
 ▶ P3681E052
4) Valve Cover Gsk
 ▶ P3681A068
5) Timing Cover Gsk
 ▶ P3681P046
 ▶ P3681P047
6) Oil Pan Gasket
 ▶ P3681K041
 ▶ P3681K044
7) Gasket Exh Manifold
 ▶ P3681V015
8) Gasket Intake Manifold
 ▶ P3681V016
9) Rocker Cover Gasket
 ▶ P3681A059
 ▶ P3681A065

1

2
2

2
2

2
2



- 1) Bush, Con Rod**
 ▶ P3112E031 x6
2) Bolt, Con Rod
 ▶ P3212V003 x12
 ▶ PT400001 x12
3) Connecting Rod
 ▶ PT405440
4) Tensioner, Belt
 ▶ PT411130

2
2

3



- 1) Bushing, Cam**
 ▶ PT410164 x1
2) Tappet
 ▶ P3142U051 x12
3) Pushrod
 ▶ P3142V011 x12
4) Seal, Valve Stem
 ▶ P2418M522 x24
5) Camshaft
 ▶ P4112K007
6) Cam and Lifter Kit
 ▶ P4112K007KIT

7

7

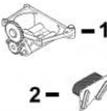
Valve Train

- 1) Valve, Intake**
 ▶ P3142H091 x12
2) Valve, Exhaust
 ▶ P3142A181 x12

- 3) Guide, Valve (Intake & Exhaust)**
 ▶ P3313A035 x24

- 4) Valve, Insert In**
 ▶ P3314A251 x12
5) Valve, Insert Ex
 ▶ P3314A261 x12

- 6) Spring, Valve**
 ▶ P3174A025 x24
7) Lock, Valve
 ▶ P3142W005 x48



- 1) Oil Pump**
 ▶ PT410626
2) Oil Cooler
 ▶ P2486A002
 ▶ P2486A231

2
2



- 1) Water Pump**
 ▶ PU5MW0204
 ▶ PU5MW0205
2) Water Pump Gasket
 ▶ P3682A011
3) Thermostat
 ▶ PT413847
 ▶ P4133L066
 ▶ P4133L067
4) Thermostat Housing Gasket
 ▶ P3682A022

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- Repair Sleeve**
 ▶ 105RS
2) Head Bolts
 ▶ P3218A017 x14
3) Cylinder Head
 ▶ P4181V022UF

7



- 1) Glow Plug**
 ▶ P2666A016 x6
 ▶ P2666A017 x6
 ▶ P2666A023 x6
 ▶ P2666A024 x6
2) Air Temp Sensor
 ▶ PU5MK1089
3) Injector
 ▶ P2645A751
 ▶ P2645A746
 ▶ P2645A749
 ▶ P2645A753
 ▶ P2645A738
 ▶ P2645A745
4) Piston Cooling Nozzle
 ▶ P2113A003

6

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- Fuel Lines**
 ▶ 1) P3525A201
 ▶ 2) P3525A202
 ▶ 3) P3525A203
 ▶ 4) P3525A204
 ▶ 5) P3525A205
 ▶ 6) P3525A206

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.
 (3): Grade J, Color Coded Green.

(2): Check build list for proper application.
 (4): Use with Cylinder Head casting number 3712L08A.

(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.

(6): PJ Build only.

(7): Check application for proper usage.

Engine Series:
1106D

Engine Model:
1106C - E66TA (PK) / 1106D - E66TA (PJ)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Aksa
APD-EPAP150
APD-EPAP150S
APD-EPAP178
APD-ULP150
AT150
Asphalt Pavers
Vogele Super 1800-2
Vogele Super 1803-2

Godlike
GDP135*S - Genset
GDP150*S - Genset
GDP180*S - Genset



Basic Kit
(Rod Brg OD 63.5 mm)

- PBK703 Std.
- PBK704 0.50
- PBK705 1.00
- SPEC SHEET - 1106C (PK)

1
1
1



Piston & Ring Kit

- PU5PR0059 Std.
- PU5PR0059B 0.50
- PU5PR0059D 1.00

6 Per Engine



Main Bearing Set

- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs



Thrust Washer Set

- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs

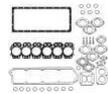
Piston Kit:

- | | | | |
|------------------|-----------------|-----------------------|-------------------|
| 1) 1 x P3135M135 | Piston Std, | 1 x <u>PUPRK0005</u> | Ring Set Std. |
| 2) 1 x P3135M136 | Piston 0.50 mm, | 1 x <u>PUPRK0005B</u> | Ring Set 0.50 mm. |
| 3) 1 x P3135M137 | Piston 1.00 mm, | 1 x <u>PUPRK0005D</u> | Ring Set 1.00 mm. |



- 1) **Front Seal**
- P2418F554
- 2) **Rear Seal**
- P2418F705
- 3) **Crankshaft Kit**
- PZZ90242
 - P4181V019
- 4) **Ring Gear**
- P31162121 126T

2
2



- 1) **Top Gasket Set**
- PU5LT1106D
- 2) **Bottom Gasket**
- PU5LB1106D
- 3) **Head Gasket**
- P3681E052
- 4) **Valve Cover Gsk**
- P3681A068
- 5) **Timing Cover Gsk**
- P3681P046
 - P3681P047
- 6) **Oil Pan Gasket**
- P3681K041
 - P3681K044
- 7) **Gasket Exh Manifold**
- P3681V015
- 8) **Gasket Intake Manifold**
- P3681V016
- 9) **Rocker Cover Gasket**
- P3681A059
 - P3681A065

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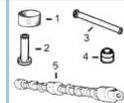
- 1) **Bush, Con Rod**
- P3112E031 x6
- 2) **Bolt, Con Rod**
- P3212V003 x12
 - PT400001 x12
- 3) **Connecting Rod**
- PT405440
- 4) **Tensioner, Belt**
- PT411130

2
2

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7



- 1) **Bushing, Cam**
- PT410164 x1
- 2) **Tappet**
- P3142U051 x12
- 3) **Pushrod**
- P3142V011 x12
- 4) **Seal, Valve Stem**
- P2418M522 x24
- 5) **Camshaft**
- P4112K007
- 6) **Cam and Lifter Kit**
- P4112K007KIT

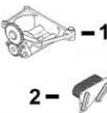
Valve Train

- 1) **Valve, Intake**
- P3142H091 x12
- 2) **Valve, Exhaust**
- P3142A181 x12

- 3) **Guide, Valve (Intake & Exhaust)**
- P3313A035 x24

- 4) **Valve, Insert In**
- P3314A251 x12
- 5) **Valve, Insert Ex**
- P3314A261 x12

- 6) **Spring, Valve**
- P3174A025 x24
- 7) **Lock, Valve**
- P3142W005 x48



- 1) **Oil Pump**
- PT410626
- 2) **Oil Cooler**
- P2486A002
 - P2486A231

2
2



- 1) **Water Pump**
- PU5MW0204
 - PU5MW0205
- 2) **Water Pump Gasket**
- P3682A011
- 3) **Thermostat**
- PT413847
 - P4133L066
 - P4133L067
- 4) **Thermostat Housing Gasket**
- P3682A022

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- Repair Sleeve**
- 105RS
- 2) **Head Bolts**
- P3218A017 x14
- 3) **Cylinder Head**
- P4181V022UF

7

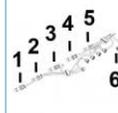


- 1) **Glow Plug**
- P2666A016 x6
 - P2666A017 x6
 - P2666A023 x6
 - P2666A024 x6
- 2) **Air Temp Sensor**
- PU5MK1089
- 3) **Injector**
- P2645A751
 - P2645A746
 - P2645A749
 - P2645A753
 - P2645A738
 - P2645A745
- 4) **Piston Cooling Nozzle**
- P2113A003

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- Fuel Lines**
- 1) P3525A201
 - 2) P3525A202
 - 3) P3525A203
 - 4) P3525A204
 - 5) P3525A205
 - 6) P3525A206

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(3): Grade J, Color Coded Green.

(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.

(7): Check application for proper usage.

(2): Check build list for proper application.

(4): Use with Cylinder Head casting number 3712L08A.

(6): PJ Build only.

Engine Series:
1106C/D

Engine Model:
1106A-70TG (PP), 1106A-70TA (PR)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
6 Cyl



- Basic Kit**
- PBK720
 - PBK721 0.50
 - PBK7222 1.00



- Piston & Ring Kit**
- PT412276 Std.
 - PT400482 0.50
 - PT400483 1.00
- 2) Ring Set**
- PUPRK0005 Std.
 - PUPRK0005B 0.50
 - PUPRK0005D 1.00
- 6 Per Engine**



- Main Bearing Set**
- PT409189 Std.
 - PT418680 0.010
 - PT418696 0.020
 - PT418697 0.030
- Set of 7 Pairs**



- Con Rod Bearing Set**
- PT409188 Std.
 - PT400524 0.010
 - PT400525 0.020
 - PT400526 0.030
- Set of 6 Pairs**



- Thrust Washer Set**
- PT409186 Std.
 - PT418971 0.007
- Set of 2 Pcs**

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.31 in / 135.00 mm
Displacement: 427.7 in3 / 7.01 Lt

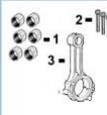
Please see page 535 for a complete list of equipment models.



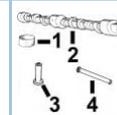
- 1) Front Seal**
- P2418F554
- 2) Rear Seal**
- P2418F704
- 3) Crankshaft Kit**
- PT411539
- 4) Ring Gear**
- P3116C001 134T



- 1) Top Gasket Set**
- PU5LTA110670
- 2) Bottom Gasket**
- PU5LBA110670
- 3) Head Gasket**
- PT408652
- 4) Timing Cover Gasket - Front Side**
- P3681P046
 - P3681P047
- 5) Timing Cover Gasket - Rear side**
- P3681P053
- 6) Oil Pan Gasket**
- PT407678
- 7) Gasket Exhaust Manifold**
- PT414387
- 8) Gasket Intake Manifold**
- P3682A013



- 1) Bush, Con Rod**
- P3112E031 x6
- 2) Bolt, Con Rod**
- PT400001 x12
- 3) Connecting Rod**
- PT405440



- 1) Bushing, Cam**
- PT410164 x1
- 2) Camshaft**
- PT406607
- 3) Tappet**
- P31434163 x12
- 4) Pushrod**
- P31434307 x12

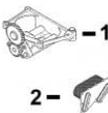
Valve Train

- 1) Valve, Intake**
- PT423393 x12
- 2) Valve, Exhaust**
- P3142A171 x12

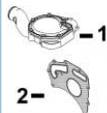
- 3) Guide, Valve**
- PT406143 x24
- 4) Spring, Valve**
- PT417881 x24

- 5) Valve, Insert Intake**
- PT405479 x12
- 6) Valve, Insert Exhaust**
- PT411475 x12

- 7) Seal, Valve Stem Intake**
- P2418M519 x12
- 8) Seal, Valve Stem Exhaust**
- P2418M517 x12
- 9) Lock, Valve**
- P2714A002 x48



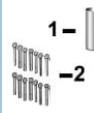
- 1) Oil Pump**
- PT410626
- 2) Oil Cooler**
- P2486A002



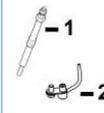
- 1) Water Pump**
- PU5MW0204
- 2) Water Pump Gasket**
- P3682A011



- 1) Thermostat**
- PT413847
- 2) Thermostat Housing Gasket**
- P3682A022



- 1) Repair Sleeve**
- 105RS
- 2) Head Bolts**
- B335-7055 x14



- 1) Glowplug**
- B298-3484
- 2) Piston Cooling Nozzle**
- PT405344

(1): Lower gasket set does not contain the Front timing cover gasket nor the oil pan gasket. Please order separately
 (2): Check application for proper usage
 (3): Included in the Bottom Set
 (4): Included in the Bottom Set
 (5): Use with Cylinder Head casting number 3712L09A & 3712L10A.
 (6): PJ Build only.
 (7): Check application for proper usage.

PERKINS 1106C-70TA (PT), 1106D-70TA (PU)

Engine Series:

1106C/D

Engine Model:

1106C/D-70TA
(PT & PU)

Engine Data:

TURBOCHARGED
Tier 3

Engine Info:

6 Cyl

Engine Dimensions:

Bore: 4.133 in /
105.00 mm
Stroke: 5.31 in /
135.00 mm
Displacement:
427.7 in3 /7.01
Lt

Build List

PT51840R
PT82391R
PT82442
PT82442R
PT83393R
PU82524R
PU82919R
PU83256R
PU83397R
PU83577



Basic Kit

- PBK710
- PBK711 0.50
- PBK712 1.00

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Piston & Ring Kit

- PT415098 Std.
 - PT415098B 0.50
 - PT415098D 1.00
- 2) **Ring Set**
- PUPRK0005 Std.
 - PUPRK0005B 0.50
 - PUPRK0005D 1.00

6 Per Engine



Main Bearing Set

- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs



Thrust Washer Set

- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs



1) **Front Seal**

- P2418F554

2) **Rear Seal**

- P2418F704

3) **Crankshaft Kit**

- PT411539

4) **Ring Gear**

- P3116C001 134T



1) **Top Gasket Set**

- PU5LTA110670

2) **Bottom Gasket**

- PU5LBA110670

3) **Head Gasket**

- PT408652

4) **Timing Cover Gasket - Front Side**

- P3681P046

- P3681P047

5) **Timing Cover Gasket - Rear side**

- P3681P053

6) **Oil Pan Gasket**

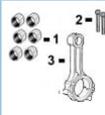
- PT407678

7) **Gasket Exhaust Manifold**

- PT414387

8) **Gasket Intake Manifold**

- P3682A013



1) **Bush, Con Rod**

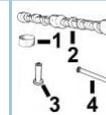
- P3112E031 x6

2) **Bolt, Con Rod**

- PT400001 x12

3) **Connecting Rod**

- PT405440



1) **Bushing, Cam**

- PT410164 x1

2) **Camshaft**

- PT406607

3) **Tappet**

- P31434163 x12

4) **Pushrod**

- P31434307 x12

Valve Train

1) **Valve, Intake**

- PT423393 x12

2) **Valve, Exhaust**

- P3142A171 x12

3) **Guide, Valve**

- PT406143 x24

4) **Spring, Valve**

- PT417881 x24

5) **Valve, Insert Intake**

- PT405479 x12

6) **Valve, Insert Exhaust**

- PT411475 x12

7) **Seal, Valve Stem Intake**

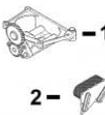
- P2418M519 x12

8) **Seal, Valve Stem Exhaust**

- P2418M517 x12

9) **Lock, Valve**

- P2714A002 x48



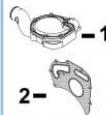
1) **Oil Pump**

- PT410626

2) **Oil Cooler**

- P2486A002

2



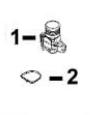
1) **Water Pump**

- PU5MW0204

2) **Water Pump Gasket**

- P3682A011

2

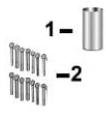


1) **Thermostat**

- PT413847

2) **Thermostat Housing Gasket**

- P3682A022

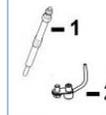


1) **Repair Sleeve**

- 105RS

2) **Head Bolts**

- B335-7055 x14



1) **Glowplug**

- B298-3484

2) **Piston Cooling Nozzle**

- PT405344

2

(1): Lower gasket set does not contain the Front timing cover gasket nor the oil pan gasket. Please order separately

(3): Included in the Bottom Set

(6): PJ Build only.

(2): Check application for proper usage

(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.

(7): Check application for proper usage.

PERKINS 1106D-E70TTA (PW)

Engine Series:
1106

Engine Model:
1106D-
E70TTA (PW)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.31 in /
135.00 mm
Displacement:
427.7 in3 / 7.01
Lt

Please see
page 536 for a
complete list of
equipment
models.



Basic Kit

- PBK714
- PBK715 0.50
- PBK716 1.00

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Piston & Ring Kit

- PT417298 Std.
- PT417298B 0.50
- PT417298D 1.00

6 Per Engine



Main Bearing Set

- PT409189 Std.
- PT418680 0.010
- PT418696 0.020
- PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- PT409188 Std.
- PT400524 0.010
- PT400525 0.020
- PT400526 0.030

Set of 6 Pairs



Thrust Washer Set

- PT409186 Std.
- PT418971 0.007

Set of 2 Pcs



1) Front Seal

- P2418F554

2) Rear Seal

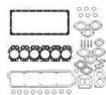
- P2418F704

3) Crankshaft

- PT411539

4) Ring Gear

- P31162121 126T



1) Top Gasket Set

- PU5LTB110670

2) Bottom Gasket

- PU5LBB110670

3) Head Gasket

- PT412648

4) Valve Cover Gasket

- PT427303 Upper
- PT413377 Lower

5) Timing Cover Gasket - Front Side

- P3681P046
- P3681P047

Timing Cover Gasket - Rear Side

- P3681P053

6) Oil Pan Gasket

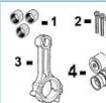
- PT407678

7) Exhaust Manifold Gasket

- PT414387

8) Intake Manifold Gasket

- P3682A013



1) Bush, Con Rod

- P3112E031 x6

2) Bolt, Con Rod

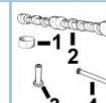
- PT400001 x12

3) Connecting Rod

- PT405440

4) Tensioner, Belt

- PT411130



1) Bushing, Cam

- PT410164 x1

2) Tappet

- P3142U051 x12

3) Pushrod

- P3142V011 x12

5) Camshaft

- PT413091

Valve Train

Valve, Intake

- P3142H091 x12

Valve, Exhaust

- P3142A181 x12

Guide, Valve

- P3313A035 x24

Seal, Valve Stem

- P2418M522 x24

Insert, valve Intake

- P3314A251 x12

Insert, Valve Exhaust

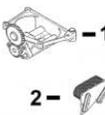
- P3314A261 x12

Spring, Valve

- P3174A025 x24

Lock, Valve

- P3142W005 x48



1) Oil Pump

- PT410626

2) Oil Cooler

- P2486A002
- P2486A231

2
2

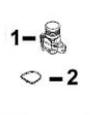


1) Water Pump

- PU5MW0204

2) Water Pump Gasket

- P3682A011

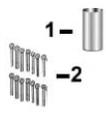


1) Thermostat

- PT413847

2) Thermostat Housing Gasket

- P3682A022

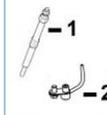


Repair Sleeve

- 105RS

2) Head Bolts

- P3218A017 x14



1) Glow Plug

- PT419164 x6

2) Piston Cooling Nozzle

- PT405344

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(3): Grade G, Color Coded Green.

(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.

(7): Check application for proper usage.

(2): Check build list for proper application.

(4): Use with Cylinder Head casting number 3712L08A.

(6): PJ Build only.

PERKINS 1106D-E70TTA (PW)

Engine Series:
1106

Engine Model:
1106D-
E70TTA (PW)

Engine Data:
TURBOCHARGED
Tier 3

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.31 in /
135.00 mm
Displacement:
427.7 in3 / 7.01
Lt

Please see
page 537 for a
complete list of
equipment
models.



Basic Kit

- ▶ PBK723
- ▶ PBK724 0.50
- ▶ PBK725 1.00

1
1
1



Piston & Ring Kit

- ▶ PT417956 Std.
- ▶ PT413520 0.50
- ▶ PT413544 1.00

6 Per Engine



Main Bearing Set

- ▶ PT409189 Std.
- ▶ PT418680 0.010
- ▶ PT418696 0.020
- ▶ PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- ▶ PT409188 Std.
- ▶ PT400524 0.010
- ▶ PT400525 0.020
- ▶ PT400526 0.030

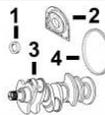
Set of 6 Pairs



Thrust Washer Set

- ▶ PT409186 Std.
- ▶ PT418971 0.007

Set of 2 Pcs



1) Front Seal

- ▶ P2418F554

2) Rear Seal

- ▶ P2418F704

3) Crankshaft

- ▶ PT411539

4) Ring Gear

- ▶ P31162121 126T



1) Top Gasket Set

- ▶ PU5LTB110670

2) Bottom Gasket

- ▶ PU5LBB110670

3) Head Gasket

- ▶ PT412648

4) Valve Cover Gasket

- ▶ PT427303 Upper
- ▶ PT413377 Lower

5) Timing Cover Gasket - Front Side

- ▶ P3681P046
- ▶ P3681P047

Timing Cover Gasket - Rear Side

- ▶ P3681P053

6) Oil Pan Gasket

- ▶ PT407678

7) Exhaust Manifold Gasket

- ▶ PT414387

8) Intake Manifold Gasket

- ▶ P3682A013



1) Bush, Con Rod

- ▶ P3112E031 x6

2) Bolt, Con Rod

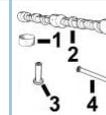
- ▶ PT400001 x12

3) Connecting Rod

- ▶ PT405440

4) Tensioner, Belt

- ▶ PT411130



1) Bushing, Cam

- ▶ PT410164 x1

2) Tappet

- ▶ P3142U051 x12

3) Pushrod

- ▶ P3142V011 x12

5) Camshaft

- ▶ PT413091

Valve Train

Valve, Intake

- ▶ P3142H091 x12

Valve, Exhaust

- ▶ P3142A181 x12

Guide, Valve

- ▶ P3313A035 x24

Seal, Valve Stem

- ▶ P2418M522 x24

Insert, valve Intake

- ▶ P3314A251 x12

Insert, Valve Exhaust

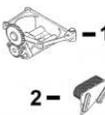
- ▶ P3314A261 x12

Spring, Valve

- ▶ P3174A025 x24

Lock, Valve

- ▶ P3142W005 x48



1) Oil Pump

- ▶ PT410626

2) Oil Cooler

- ▶ P2486A002
- ▶ P2486A231

2
2

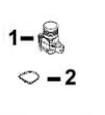


1) Water Pump

- ▶ PU5MW0204

2) Water Pump Gasket

- ▶ P3682A011

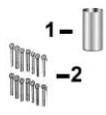


1) Thermostat

- ▶ PT413847

2) Thermostat Housing Gasket

- ▶ P3682A022

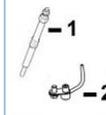


Repair Sleeve

- ▶ 105RS

2) Head Bolts

- ▶ P3218A017 x14



1) Glow Plug

- ▶ PT419164 x6

2) Piston Cooling Nozzle

- ▶ PT405344

(1): Bottom Gasket Set does not contain the Timing Cover Gasket or the Oil Pan Gasket. Order separately.

(3): Grade G, Color Coded Green.

(5): Use with Cylinder Head casting number 3712L09A & 3712L10A.

(7): Check application for proper usage.

(2): Check build list for proper application.

(4): Use with Cylinder Head casting number 3712L08A.

(6): PJ Build only.

PERKINS 1206E-E70TTA (BL)

Engine Series:
1206

Engine Model:
1206E-E70TTA
(BL)

Engine Data:
TURBOCHARGED
Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.13 in /
105.00 mm
Stroke: 5.31 in /
135.00 mm
Displacement:
427.7 in3 / 7.01
Lt

Please see
page 538 for a
complete list of
equipment
models.



Basic Kit

- ▶ PBK717
- ▶ PBK718 0.50
- ▶ PBK719 1.00

1
1
1



Piston & Ring Kit

- ▶ PT409184 Std.
- ▶ PT400498 0.50
- ▶ PT400499 1.00

6 Per Engine

2) **Ring Set**

- ▶ PT409187 Std.
- ▶ PT418420 0.50
- ▶ PT418421 1.00



Main Bearing Set

- ▶ PT409189 Std.
- ▶ PT418680 0.010
- ▶ PT418696 0.020
- ▶ PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- ▶ PT409188 Std.
- ▶ PT400524 0.010
- ▶ PT400525 0.020
- ▶ PT400526 0.030

Set of 6 Pairs



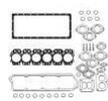
Thrust Washer Set

- ▶ PT409186 Std.
- ▶ PT418971 0.007

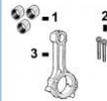
Set of 2 Pcs



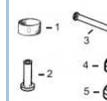
- 1) **Front Seal**
▶ PT406781
- 2) **Rear Seal**
▶ P2418F705
- 3) **Crankshaft**
▶ PT411539



- 1) **Top Gasket Set**
▶ PU5LT1206E
- 2) **Bottom Gasket**
▶ PU5LB1206E
- 3) **Head Gasket**
▶ PT416115
- 4) **Valve Cover Gasket**
▶ PT407192
- Exhaust Manifold Gasket**
▶ PT410538 x2
- 5) **Timing Cover Gasket - Front Side**
▶ PT405824 (3)
▶ PT406926 (4)
- Timing Cover Gasket - Rear Side**
▶ PT406050 (5)
▶ PT405410 (6)
- 6) **Oil Pan Gasket**
▶ P3681K044 Upper
▶ P3681K041 Lower



- 1) **Bush, Con Rod**
▶ P3112E031 x6
- 2) **Bolt, Con Rod**
▶ PT400001 x12
- 3) **Connecting Rod**
▶ PT406141



- 1) **Bushing, Cam**
▶ PT410164 x1
- 2) **Tappet**
▶ PT411902 x12
- 3) **Pushrod**
▶ P3142V011 x12
- 5) **Camshaft**
▶ PT405773 (7)

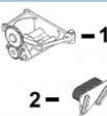
Valve Train

- 1) **Valve, Intake**
▶ PT406777 x12
- 2) **Valve, Exhaust**
▶ PT405211 x12

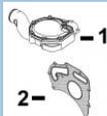
- 3) **Guide, Valve (Intake & Exhaust)**
▶ PT407959 x24
- 4) **Seal, Valve Stem**
▶ PT412573 x24

- 5) **Valve, Insert Intake**
▶ PT407000 x12
- 6) **Valve, Insert Exhaust**
▶ PT406545 x12

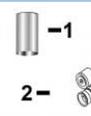
- 7) **Spring, Valve Intake**
▶ PT417713 x12
- Spring, Valve Exhaust**
▶ PT417519 x12
- 8) **Lock, Valve**
▶ P3142W003 x48



- 1) **Oil Pump**
▶ PT411864
- 2) **Oil Cooler**
▶ PT417740



- 1) **Water Pump**
▶ PT413424
- 2) **Water Pump Gasket**
▶ PT407626
- 3) **Thermostat**
▶ PT423554 (7)
▶ PT414226 (7)



- 1) **Repair Sleeve**
▶ 105RS
- 2) **Tensioner, Belt**
▶ PT411130
- 3) **Head Bolts**
▶ P3218A017 x14



- 1) **Glow Plug**
▶ P2666A023 (4)
▶ P2666A024
- 3) **Injector**
▶ PT409980 (7)
- 4) **Piston Cooling Nozzle**
▶ PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(3): Use with Timing cover – Rear Side PT406050

(5): Use with Timing Cover – Front Side PT405824

(7): Check application for proper usage

(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(4): Use with Timing cover – Rear Side PT405410

(6): Use with Timing Cover – Front Side PT406926

PERKINS 1204E-E44TA (MK)

Engine Series:
1204E

Engine Model:
Perkins 1204E-
E44TA (MK)

Engine Data:
TURBOCHARGED
Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
268.50 in3 / 4.4
Lt

Please see
page 539 for a
complete list of
equipment
models.



Basic Kit

- › PBK538
- › PBK539 0.50
- › PBK540 1.00
- › SPEC SHEET -
1204E-E44TA (MK)

1
1
1



Piston & Ring Kit

- › PT400108 Std.
- › PT410926 0.50
- › PT418426 1.00

4 Per Engine

2) Ring Set

- › PT409187 Std.
- › PT418420 0.50
- › PT418421 1.00



Main Bearing Set

- › PT427328 Std.
- › PT427325 0.25
- › PT427326 0.50
- › PT427322 0.75

Set of 5 Pairs



Con Rod Bearing Set

- › PT410927 Std.
- › PT420155 0.25
- › PT420154 0.50
- › PT420153 0.75

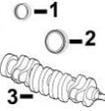
Set of 4 Pairs



Thrust Washer Set

- › PT409186 Std.
- › PT418971 0.007

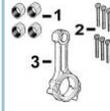
Set of 2 Pcs



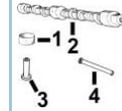
- 1) **Front Seal**
› PT406781
- 2) **Rear Seal**
› P2418F704
- 3) **Crankshaft**
› PT422325



- 1) **Top Gasket Set**
› PU5LT1204E
- 2) **Bottom Gasket**
› PU5LB1204E
- 3) **Head Gasket**
› PT406619
- 4) **Valve Cover Gasket**
› PT400093
- Exhaust Manifold Gasket**
› PT407220
- 5) **Timing Cover Gasket - Front Side**
› PT405824
- › PT406926
- Timing Cover Gasket - Rear Side**
› PT406050
- › PT405410
- 6) **Oil Pan Gasket**
› P3681K037



- 1) **Bush, Con Rod**
› P3112E031 x4
- 2) **Bolt, Con Rod**
› PT400001 x8
- 3) **Conn. Rod**
› PT405102 x4



- 1) **Bushing, Cam**
› PT410164 x1
- 2) **Camshaft**
› PT408625
- 3) **Tappet**
› PT411902 x8
- 4) **Pushrod**
› P3142V011 x8

Valve Train

- 1) **Valve, Intake**
› PT406777 x8
- 2) **Valve, Exhaust**
› PT405211 x8

- 3) **Guide, Valve (Intake & Exhaust)**
› PT407959 x16
- 4) **Seal, Valve Stem**
› PT412573 x16

- 5) **Valve, Insert Intake**
› PT407000 x8
- 6) **Valve, Insert Exhaust**
› PT406545 x8

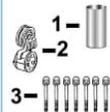
- 7) **Spring, Valve**
› PT417519 x16
- 8) **Lock, Valve**
› P3142W003 x32



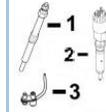
- 1) **Oil Pump**
› PT407944
- 2) **Oil Cooler**
› PT408482
- 3) **Oil Cooler Gasket**
› PT408424



- 1) **Water Pump**
› PT413418
- › PT413421
- 2) **Water Pump Gasket**
› PT407626
- 3) **Thermostat**
› PT423566
- › PT409200



- 1) **Repair Sleeve**
› 105RS x4
- 2) **BELT TENSIONER**
› PT411130
- 3) **Head Bolts**
› P3218A017 x10



- 1) **Glow Plug**
› P2666A024 24volts
- › P2666A023 12volts
- 3) **Injector**
› PT409981
- › PT409983
- 3) **Piston Cooling Nozzle**
› PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(3): Use with Timing cover – Rear Side PT406050

(5): Use with Timing Cover – Front Side PT405824

(7): Check application for proper usage

(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(4): Use with Timing cover – Rear Side PT405410

(6): Use with Timing Cover – Front Side PT406926

PERKINS 1204E-E44TA (MK,ML), 1204F-E44TTA (MU,MW)

Engine Series:
1204E & 1204F

Engine Model:
Perkins 1204E-
E44TA &
1204F-E44TTA

Engine Data:
TURBOCHARGED
Tier 4 Interim

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 4.133 in /
105.00 mm
Stroke: 5.00 in /
127.00 mm
Displacement:
268.50 in3 / 4.4
Lt

Please see
page **540** for a
complete list of
equipment
models.



Basic Kit

- › PBK541
- › PBK542 0.50
- › PBK543 1.00
- › SPEC SHEET -
1204E-E44TA (MK)

1
1
1



Piston & Ring Kit

- › PT410925 Std.
- › PT400435 0.50
- › PT400436 1.00

4 Per Engine

2) Ring Set

- › PT409187 Std.
- › PT418420 0.50
- › PT418421 1.00



Main Bearing Set

- › PT427328 Std.
- › PT427325 0.25
- › PT427326 0.50
- › PT427322 0.75

Set of 5 Pairs



Con Rod Bearing Set

- › PT410927 Std.
- › PT420155 0.25
- › PT420154 0.50
- › PT420153 0.75

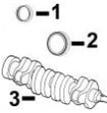
Set of 4 Pairs



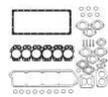
Thrust Washer Set

- › PT409186 Std.
- › PT418971 0.007

Set of 2 Pcs



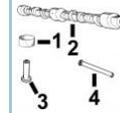
- 1) **Front Seal**
› PT406781
- 2) **Rear Seal**
› P2418F704
- 3) **Crankshaft**
› PT422325
› PT420190



- 1) **Top Gasket Set**
› PU5LT1204E
- 2) **Bottom Gasket**
› PU5LB1204E
- 3) **Head Gasket**
› PT406619
- 4) **Valve Cover Gasket**
› PT400093
- Exhaust Manifold Gasket**
› PT407220
- 5) **Timing Cover Gasket - Front Side**
› PT405824
› PT406926
- Timing Cover Gasket - Rear Side**
› PT406050
› PT405410
- 6) **Oil Pan Gasket**
› P3681K037



- 1) **Bush, Con Rod**
› P3112E031 x4
- 2) **Bolt, Con Rod**
› PT400001 x8
- 3) **Conn. Rod**
› PT405102 x4



- 1) **Bushing, Cam**
› PT410164 x1
- 2) **Camshaft**
› PT408625
- 3) **Tappet**
› PT411902 x8
- 4) **Pushrod**
› P3142V011 x8

Valve Train

- 1) **Valve, Intake**
› PT406777 x8
- 2) **Valve, Exhaust**
› PT405211 x8

- 3) **Guide, Valve (Intake & Exhaust)**
› PT407959 x16
- 4) **Seal, Valve Stem**
› PT412573 x16

- 5) **Valve, Insert Intake**
› PT407000 x8
- 6) **Valve, Insert Exhaust**
› PT406545 x8

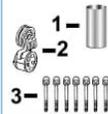
- 7) **Spring, Valve**
› PT417519 x16
- 8) **Lock, Valve**
› P3142W003 x32



- 1) **Oil Pump**
› PT407944
- 2) **Oil Cooler**
› PT408482
- 3) **Oil Cooler Gasket**
› PT408424



- 1) **Water Pump**
› PT413418
› PT413421
- 2) **Water Pump Gasket**
› PT407626
- 3) **Thermostat**
› PT423566
› PT423567
› PT409200



- 1) **Repair Sleeve**
› 105RS x4
- 2) **BELT TENSIONER**
› PT411130
› PT410698
- 3) **Head Bolts**
› P3218A017 x10



- 1) **Glow Plug**
› P2666A024 24volts
› P2666A023 12volts
- 3) **Injector**
› PT409980
› PT409981
› PT409983
- 3) **Piston Cooling Nozzle**
› PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(3): Use with Timing cover – Rear Side PT406050
(5): Use with Timing Cover – Front Side PT405824
(7): Check application for proper usage

(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.
(4): Use with Timing cover – Rear Side PT405410
(6): Use with Timing Cover – Front Side PT406926

PERKINS 1206E-E66TA (BK) (BL)

Engine Series:
1206

Engine Model:
Perkins 1206E-E66TA (BK)

Engine Data:
TURBOCHARGED
Tier 4 Interim

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 4.133 in / 105.00 mm
Stroke: 5.00 in / 127.00 mm
Displacement: 402.76 in3 / 6.6 Lt

Build List

BK81955
BK82197
BK8239
BK82954
BK82955
BK82970
BL51823
BL51824

Bulmor

DQ 100-120
DQ 130-150



Basic Kit

- ▶ PBK706
- ▶ PBK707 0.50
- ▶ PBK708 1.00
- ▶ SPEC SHEET - 1206E-E66TA

1
1
1



Piston & Ring Kit

- ▶ PT400108 Std.
- ▶ PT410926 0.50
- ▶ PT418426 1.00

6 Per Engine

- 2) **Ring Set**
- ▶ PT409187 Std.
- ▶ PT418420 0.50
- ▶ PT418421 1.00



Main Bearing Set

- ▶ PT409189 Std.
- ▶ PT418680 0.010
- ▶ PT418696 0.020
- ▶ PT418697 0.030

Set of 7 Pairs



Con Rod Bearing Set

- ▶ PT409188 Std.
- ▶ PT400524 0.010
- ▶ PT400525 0.020
- ▶ PT400526 0.030

Set of 6 Pairs



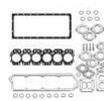
Thrust Washer Set

- ▶ PT409186 Std.
- ▶ PT418971 0.007

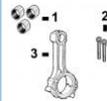
Set of 2 Pcs



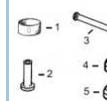
- 1) **Front Seal**
- ▶ PT406781
- 2) **Rear Seal**
- ▶ P2418F705
- 3) **Crankshaft**
- ▶ PT411616



- 1) **Top Gasket Set**
- ▶ PU5LT1206E
- 2) **Bottom Gasket**
- ▶ PU5LB1206E
- 3) **Head Gasket**
- ▶ PT416115
- 4) **Valve Cover Gasket**
- ▶ PT407192
- Exhaust Manifold Gasket**
- ▶ PT410538 x2
- 5) **Timing Cover Gasket - Front Side**
- ▶ PT405824
- ▶ PT406926
- Timing Cover Gasket - Rear Side**
- ▶ PT406050
- ▶ PT405410
- 6) **Oil Pan Gasket**
- ▶ P3681K044 Upper
- ▶ P3681K041 Lower



- 1) **Bush, Con Rod**
- ▶ P3112E031 x6
- 2) **Bolt, Con Rod**
- ▶ PT400001 x12
- 3) **Connecting Rod**
- ▶ PT405440



- 1) **Bushing, Cam**
- ▶ PT410164 x1
- 2) **Tappet**
- ▶ PT411902 x12
- 3) **Pushrod**
- ▶ P3142V011 x12
- 5) **Camshaft**
- ▶ PT405773

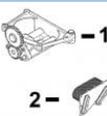
Valve Train

- 1) **Valve, Intake**
- ▶ PT406777 x12
- 2) **Valve, Exhaust**
- ▶ PT405211 x12

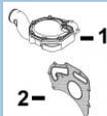
- 3) **Guide, Valve (Intake & Exhaust)**
- ▶ PT407959 x24
- 4) **Seal, Valve Stem**
- ▶ PT412573 x24

- 5) **Valve, Insert Intake**
- ▶ PT407000 x12
- 6) **Valve, Insert Exhaust**
- ▶ PT406545 x12

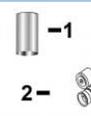
- 7) **Spring, Valve Intake**
- ▶ PT417713 x12
- Spring, Valve Exhaust**
- ▶ PT417519 x12
- 8) **Lock, Valve**
- ▶ P3142W003 x48



- 1) **Oil Pump**
- ▶ PT411864
- 2) **Oil Cooler**
- ▶ PT417742



- 1) **Water Pump**
- ▶ PT413421
- 2) **Water Pump Gasket**
- ▶ PT407626
- 3) **Thermostat**
- ▶ PT423567
- ▶ PT409197
- ▶ PT414228



- 1) **Repair Sleeve**
- ▶ 105RS
- 2) **Tensioner, Belt**
- ▶ PT411130
- 3) **Head Bolts**
- ▶ P3218A017 x14



- 1) **Glow Plug**
- ▶ P2666A024 24volts
- 3) **Injector**
- ▶ PT409982
- 4) **Piston Cooling Nozzle**
- ▶ PT405344

(1): Does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(3): Use with Timing cover – Rear Side PT406050

(5): Use with Timing Cover – Front Side PT405824

(7): Check application for proper usage

(2): Bottom Gasket Set does not contain the Timing Cover Gasket nor Oil Pan Gaskets. Order separately.

(4): Use with Timing cover – Rear Side PT405410

(6): Use with Timing Cover – Front Side PT406926

PERKINS 3.152 FROM ESN 1935854

Engine Series:
3.152

Engine Model:
3.152 (CD)

Engine Desc:
INDIRECT INJECTION

Engine Data:
Rope Seal
from ESN 1935854

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Massey Ferguson Agricultural

35

50

Massey Ferguson Industrial

35 Utility
205

203



- 1) **Engine O/H Kit**
‣ POK302
- 2) **Basic Engine Kit**
‣ PBK302
‣ SPEC SHEET - 3.152 (CD)



- Piston-Liner Kit**
‣ PU5MK0033
- Consist of:**
- a) P81512
- b) P41158057
- c) P31358345
- 3 Per Engine**



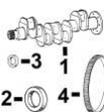
- Main Bearing Set**
‣ P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030
- Set of 4 Pairs**



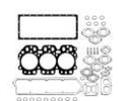
- Con Rod Bearing Set**
‣ P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030
- Set of 3 Pairs**



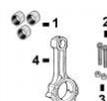
- Thrust Washer Set**
‣ P31137211/21
- Set of 2 Pairs**



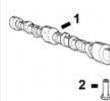
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P36883106 x2
- 3) **Crankshaft Kit**
‣ PZZ90116
- 4) **Ring Gear**
‣ P0410236 115T
- P31162121 126T



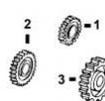
- 1) **Top Gasket Set**
‣ PU5LT0012
- 2) **Bottom Gasket**
‣ PU5LB0012
- 3) **Head Gasket**
‣ P36812136



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90011



- 1) **Camshaft**
‣ P31415261
- 2) **Tappet**
‣ P0860012



- 1) **Crankshaft, Gear**
‣ P0410132
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

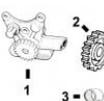
- Valve Train Kit**
‣ PVTK301

- 1) **Valve, Intake**
‣ P31431261 x3
- 2) **Valve, Exhaust**
‣ P0910002 x3

- 3) **Guide, Valve (Intake & Exhaust)**
‣ P33261723 x6

- 4) **Spring, Valve**
a) **Outer**
‣ 4a) P0780006 x6

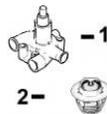
- 5) **Lock, Valve**
‣ P0230001 x12



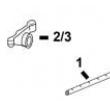
- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



- Lift Pump**
‣ P2641408



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023
- 1) **Water Pump with Pulley**
‣ P41312784
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091



- 1) **Cylinder HD with Valves**
‣ PZZ80048
- 2) **Heater Plug (Screw Fitting)**
‣ P2666103
- P2666108
- (Bayonet Fitting)**

(1): Flat Head Piston.(2) Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(3): Check Build List for proper application use

Engine Series:
3.152

Engine Model:
3.152 (CD)

Engine Desc:
INDIRECT INJECTION

Engine Data:
Rope Seal
to ESN 1935853

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural

35

50

Mf Industrial

35 Utility
205

203



- 1) **Engine O/H Kit**
‣ POK301
- 2) **Basic Engine Kit**
‣ PBK301
‣ SPEC SHEET - 3.152 (CD)



- Piston-Liner Kit**
‣ PCK152
- Consist of:**
- a) P81512
- b) P41158057
- c) P31358308
- 3 Per Engine**



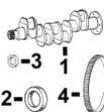
- Main Bearing Set**
‣ P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030
- Set of 4 Pairs**



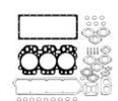
- Con Rod Bearing Set**
‣ P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030
- Set of 3 Pairs**



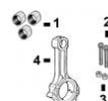
- Thrust Washer Set**
‣ P31137211/21
- Set of 2 Pairs**



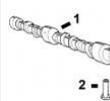
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P36883106 x2
- 3) **Crankshaft Kit**
‣ PZZ90116
- 4) **Ring Gear**
‣ P0410236 115T
- P31162121 126T



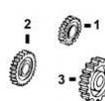
- 1) **Top Gasket Set**
‣ PU5LT0012
- 2) **Bottom Gasket**
‣ PU5LB0012
- 3) **Head Gasket**
‣ P36812136



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90011



- 1) **Camshaft**
‣ P31415261
- 2) **Tappet**
‣ P0860012



- 1) **Crankshaft, Gear**
‣ P0410132
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

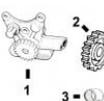
- Valve Train Kit**
‣ PVTK301

- 1) **Valve, Intake**
‣ P31431261 x3
- 2) **Valve, Exhaust**
‣ P0910002 x3

- 3) **Guide, Valve (Intake & Exhaust)**
‣ P33261723 x6

- 4) **Spring, Valve**
a) **Outer**
‣ 4a) P0780006 x6

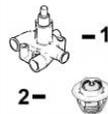
- 5) **Lock, Valve**
‣ P0230001 x12



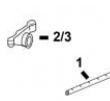
- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



- Lift Pump**
‣ P2641408



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023
- 1) **Water Pump with Pulley**
‣ P41312784
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091



- 1) **Cylinder HD with Valves**
‣ PZZ80048
- 2) **Heater Plug (Screw Fitting)**
‣ P2666103
- P2666108
- (Bayonet Fitting)**

(1): Flat Head Piston.(2) Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040". (2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".
(3): Check Build List for Proper Application Use

PERKINS D3.152 TO ESN UA391044D

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT
INJECTION

Engine Data:
Rope Seal
ESN ending
with D to
UA391044D

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in
/ 91.491mm

Mf Agricultural
135
150
230
235

Mf Industrial
20
40
200 - Crawler
203
205
2135
2200 - Forklift
& Treever
2244 - Crawler
2500 - Forklift



- 1) **Engine O/H Kit**
‣ POK303
- 2) **Basic Engine Kit**
‣ PBK303
- SPEC SHEET -
D3.152 (CE)



- Piston-Liner Kit**
‣ PU5MK0034
- Consist of:**
- a) P68332
 - b) P41158057
 - c) P31358345
- 3 Per Engine**



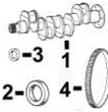
- Main Bearing Set**
- P68084 Std.
 - P68084A 0.010
 - P68084B 0.020
 - P68084C 0.030
- Set of 4 Pairs**



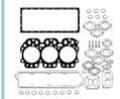
- Con Rod Bearing Set**
- P85036 Std.
 - P85036A 0.010
 - P85036B 0.020
 - P85036C 0.030
- Set of 3 Pairs**



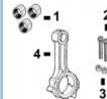
- Thrust Washer Set**
‣ P31137211/21
- Set of 2 Pairs**



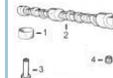
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P36883106 x2
- 3) **Crankshaft Kit**
‣ PZZ90116
- 4) **Ring Gear**
‣ P0410236 115T (5)
‣ P0410264 122T (5)
‣ P31162121 126T (5)



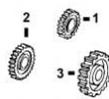
- 1) **Top Gasket Set**
‣ PU5LT0038
- 2) **Bottom Gasket**
‣ PU5LB0012
- 3) **Head Gasket**
‣ P3681E006



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90010



- 1) **Bushing, Cam**
‣ P31134128 x1
- 2) **Camshaft**
‣ P31415261
- 3) **Tappet**
‣ P08660012
- 4) **Seal, Valve**
‣ P2415258
‣ (Set of 3)



- 1) **Crankshaft, Gear**
‣ P0410132
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

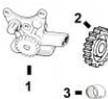
- Valve Train Kit**
‣ PVTK302

- 1) **Valve, Intake**
‣ P31431281 x3
- 2) **Valve, Exhaust**
‣ P31431591 x3

- 3) **Guide, Valve (Intake & Exhaust)**
‣ P33261723 x6

- 4) **Spring, Valve a) Outer**
‣ 4a) P0780006 x6

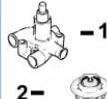
- 5) **Lock, Valve**
‣ P0230001 x12



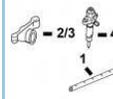
- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



- Lift Pump**
‣ P2641408 (1)
‣ P2641A063 (2)



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023 (1)
- 1) **Water Pump with Pulley**
‣ P41312874 (2)
- 2) **Thermostat**
‣ P2485666
‣ P2485659



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091
- 4) **Injector**
‣ P2645680 (4)



- 1) **Cylinder HD with Valves**
‣ PZZ80082
- 2) **Heater Plug (Screw Fitting)**
‣ P2666103
‣ P2666108 (4)
- 3) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062 (5)
- 4) **Insert, Valve Seat**
‣ P33124428 x3

(1): To Engine No: UA38571D.

(2): From Engine No: UA38572D.

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(4): Check your perkins parts catalog.

(5): Check build list for proper application use

PERKINS D3.152 FROM ESN UA391045DL

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT
INJECTION

Engine Data:
Lip Seal
ESN ending
with DL from
UA391045DL

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in
/ 91.491mm

Build List
CE31244

Landini Tractors
4500
4830

Mf Agricultural
135
230
235

Mf Industrial
20
40



- 1) **Engine O/H Kit**
 - › POK304
- 2) **Basic Engine Kit**
 - › PBK304
 - › SPEC SHEET - D3.152 (CE)



- 1) **Piston-Liner Kit**
 - › PU5MK0034
- Consist of:**
 - › a) P68332
 - › b) P41158057
 - › c) P31358345
- 3 Per Engine**



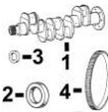
- 1) **Main Bearing Set**
 - › P68084 Std.
 - › P68084A 0.010
 - › P68084B 0.020
 - › P68084C 0.030
- Set of 4 Pairs**



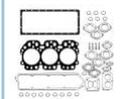
- 1) **Con Rod Bearing Set**
 - › P85036 Std.
 - › P85036A 0.010
 - › P85036B 0.020
 - › P85036C 0.030
- Set of 3 Pairs**



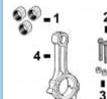
- 1) **Thrust Washer Set**
 - › P31137211/21
- Set of 2 Pairs**



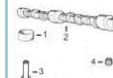
- 1) **Front Seal**
 - › P2415344
- 2) **Rear Seal**
 - › P2418F475
- 3) **Crankshaft Kit**
 - › PZZ90078
- 4) **Ring Gear**
 - › P0410236 115T
 - › P0410264 122T
 - › P31162121 126T



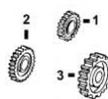
- 1) **Top Gasket Set**
 - › PU5LT0038
- 2) **Bottom Gasket**
 - › PU5LB0011
- 3) **Head Gasket**
 - › P3681E006



- 1) **Bush, Con Rod**
 - › P31134151 x3
- 2) **Bolt, Con Rod**
 - › P0095250 x6
- 3) **Nut, Con Rod**
 - › P33221327 x6
- 4) **Con Rod**
 - › PZZ90010



- 1) **Bushing, Cam**
 - › P31134128 x1
- 2) **Camshaft**
 - › P31415261
- 3) **Tappet**
 - › P0860012
- 4) **Seal, Valve**
 - › P2415258
 - › (Set of 3)



- 1) **Crankshaft, Gear**
 - › P0410132
- 2) **Camshaft Gear**
 - › P0410241
- 3) **Idler Gear**
 - › P31164362

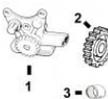
- 1) **Valve Train Kit**
 - › PVTK303

- 1) **Valve, Intake**
 - › P31431681 x3
- 2) **Valve, Exhaust**
 - › P31431011 x3

- 3) **Guide, Valve (Intake & Exhaust)**
 - › P33261723 x6

- 4) **Spring, Valve a) Outer**
 - › 4a) P0780006 x6

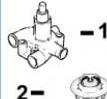
- 5) **Lock, Valve**
 - › P0230001 x12



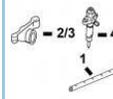
- 1) **Oil Pump**
 - › P41314078
- 2) **Oil Pump Drive Gear**
 - › P41115025
- 3) **Bushing, Drive Gear**
 - › P0050265



- 1) **Lift Pump**
 - › P2641808
 - › P2641A063



- 1) **Water Pump w/o Pulley**
 - › PU5MW0023
- 1) **Water Pump with Pulley**
 - › P41312874
- 2) **Thermostat**
 - › P2485666



- 1) **Rocker Shaft**
 - › PZZ90047
- 2) **Rocker Arm LH**
 - › P3737A101
- 3) **Rocker Arm RH**
 - › P3737A091
- 4) **Injector**
 - › P2645680
 - › P2645732



- 1) **Cylinder HD with Valves**
 - › PZZ80082
- 2) **Heater Plug (Screw Fitting)**
 - › P2666103
 - › P2666108
- 3) **Oil Pressure Switch (Bayonet Fitting)**
 - › P2848062
- 4) **Insert, Valve Seat**
 - › P33124428 x3

(1): To Engine No: U635848G (2 Hole).

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(5): Check your Perkins Parts Catalog..

(7): Check build list for proper application use

(2): From Engine No: U635849G (4 Hole)

(4): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK304NB and nominate the bearings.

(6): Used on Build list CE31075 only.

PERKINS D3.152 TO ESN UA391044DS

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT
INJECTION

Engine Data:
Rope Seal
To ESN
UA391044DS



- 1) **Engine O/H Kit**
‣ POK305
- 2) **Basic Engine Kit**
‣ PBK305
- SPEC SHEET -
D3.152 (CE)



- Piston-Liner Kit**
‣ PU5MK0117
- Consist of:**
- a) P89214
- b) P41158065
- c) P31358345
- 3 Per Engine**



- Main Bearing Set**
‣ P68084 Std.
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030
- Set of 4 Pairs**



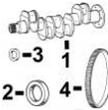
- Con Rod Bearing Set**
‣ P85036 Std.
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030
- Set of 3 Pairs**



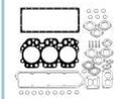
- Thrust Washer Set**
‣ P31137211/21
- Set of 2 Pairs**

Engine Info:
3 Cyl

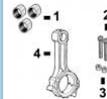
Engine Dimensions:
Bore: 3.6020 in
/ 91.491mm



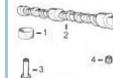
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P36883106 x2
- 3) **Crankshaft Kit**
‣ PZZ90116
- 4) **Ring Gear**
‣ P0410236 115T
- P0410264 122T
- P31162121 126T



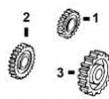
- 1) **Top Gasket Set**
‣ PU5LT0038
- 2) **Bottom Gasket**
‣ PU5LB0012
- 3) **Head Gasket**
‣ P3681E006



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90010



- 1) **Bushing, Cam**
‣ P31134128 x1
- 2) **Camshaft**
‣ P31415261
- 3) **Tappet**
‣ P0860012
- 4) **Seal, Valve**
‣ P2415258
- (Set of 3)



- 1) **Crankshaft, Gear**
‣ P0410132
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

Mf Agricultural
235
245

Mf Industrial
20C
30B

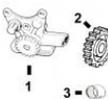
- Valve Train Kit**
‣ PVTK303

- 1) **Valve, Intake**
‣ P31431681 x3
- 2) **Valve, Exhaust**
‣ P31431011 x3

- 3) **Guide, Valve (Intake & Exhaust)**
‣ 3) P33261723 x6

- 4) **Spring, Valve a) Outer**
‣ 4a) P0780006 x6

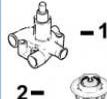
- 5) **Lock, Valve**
‣ P0230001 x12



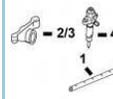
- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



- Lift Pump**
‣ P2641A063
- P2641808



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023
- 2) **Water Pump with Pulley**
‣ P41312874
- 3) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091
- 4) **Injector**
‣ P2645680



- 1) **Cylinder HD with Valves**
‣ PZZ80082
- 2) **Heater Plug (Screw Fitting)**
‣ P2666103
- 3) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062
- 4) **Insert, Valve Seat**
‣ P33124428 x3

(1): To Engine No: U635848G (2 Hole). (2): From Engine No: U635849G (4 Hole).
 (3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available. (4): Check your Perkins Parts Catalog.
 (5): Check build list for proper application use

PERKINS D3.152 DIRECT INJECTION 1

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT
INJECTION

Engine Data:
Lip Seal

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020
in /
91.491mm

Ingersoll Rand Compressors

Model 85 -
(CE21575)
DRP 85S 85
CM -
(CE22236)

Lincoln-Electric
Welder -
(CE95231)



- 1) **Engine O/H Kit**
‣ POK309
- 2) **Basic Engine Kit**
‣ PBK309
- SPEC SHEET -
D3.152 (CE)



- 1) **Piston-Liner Kit**
‣ PU5MK0034
- **Consist of:**
- a) P68332
- b) P41158057
- c) P31358345
- 1 **3 Per Engine**



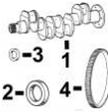
- 1) **Main Bearing Set**
‣ P68084 Std. 2
- P68084A 0.010
- P68084B 0.020
- P68084C 0.030
- 1 **Set of 4 Pairs**



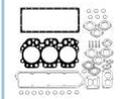
- 1) **Con Rod Bearing Set**
‣ P85036 Std. 2
- P85036A 0.010
- P85036B 0.020
- P85036C 0.030
- 1 **Set of 3 Pairs**



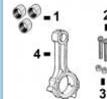
- 1) **Thrust Washer Set**
‣ P31137211/21
- 1 **Set of 2 Pairs**



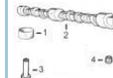
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90078 6
- 4) **Ring Gear**
‣ P0410236 115T 8
- P0410264 122T 8
- P31162121 126T 8



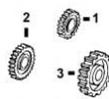
- 1) **Top Gasket Set**
‣ PU5LT0038
- 2) **Bottom Gasket**
‣ PU5LB0010
- 3) **Head Gasket**
‣ P3681E006



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90010 3



- 1) **Bushing, Cam**
‣ P31134128 x1
- 2) **Camshaft**
‣ P31415261
- 3) **Tappet**
‣ P0860012
- 4) **Seal, Valve**
‣ P2415258
- (Set of 3)



- 1) **Crankshaft, Gear**
‣ P0410132 6
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

- 1) **Valve Train Kit**
‣ PVTK303

- 1) **Valve, Intake**
‣ P31431681 x3
- 2) **Valve, Exhaust**
‣ P31431011 x3

- 3) **Guide, Valve (Intake & Exhaust)**
‣ P33261723 x6

- 4) **Spring, Valve a) Outer**
‣ 4a) P0780006 x6

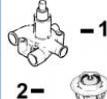
- 5) **Lock, Valve**
‣ P0230001 x12



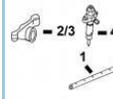
- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



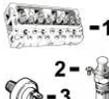
- 1) **Lift Pump**
‣ P2641408 4
- P2641808 5



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023 4
- 1) **Water Pump with Pulley**
‣ P41312874 5
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091
- 4) **Injector**
‣ P2645680 7



- 1) **Cylinder HD with Valves**
‣ PZZ80082
- 2) **Glowplug**
‣ P2666103
- 3) **Oil Pressure Switch (Screw Fitting)**
‣ P2848062 8
- 4) **Insert, Valve Seat**
‣ P33124428 x3

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(3): Build CE95231 Uses PZZ90011.

(5): From Engine No: U635849G (4 Hole).

(7): Check your Perkins Parts Catalog..

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK309NB and nominate the bearings.

(4): To Engine No: U635848G (2 Hole).

(6): Not used on Build No: CE95231.

(8): Check build list for proper application use

PERKINS D3.152 DIRECT INJECTION 2

Engine Series:

3.152

Engine Model:

D3.152 (CE)

Engine Desc:DIRECT
INJECTION**Engine Data:**

Lip Seal

Engine Info:

3 Cyl

Engine**Dimensions:**Bore: 3.6020 in
/ 91.491mm**MF Agricultural**

135

250 -

(CE22488)

150

**1) Engine O/H Kit**

- › POK307/45
- › POK307/35

2) Basic Engine Kit

- › PBK307
- › SPEC SHEET - D3.152 (CE)

1
2**Piston-Liner Kit**

- › PU5MK0034

Consist of:

- › a) P68332
- › b) P41158057
- › c) P31358345

3 Per Engine

5

**Main Bearing Set**

- › P68084 Std.
- › P68084A 0.010
- › P68084B 0.020
- › P68084C 0.030

Set of 4 Pairs

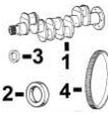
6

**Con Rod Bearing Set**

- › P85036 Std.
- › P85036A 0.010
- › P85036B 0.020
- › P85036C 0.030

Set of 3 Pairs**Thrust Washer Set**

- › P31137211/21

Set of 2 Pairs**1) Front Seal**

- › P2415344

2) Rear Seal

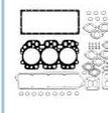
- › P2418F475

3) Crankshaft Kit

- › PZZ90078

4) Ring Gear

- › P0410236 115T
- › P0410264 122T
- › P31162121 126T

9
9
9**1) Top Gasket Set**

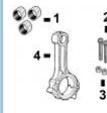
- › PU5LT0038

2) Bottom Gasket

- › PU5LB0011

3) Head Gasket

- › P3681E006

**1) Bush, Con Rod**

- › P31134151 x3

2) Bolt, Con Rod

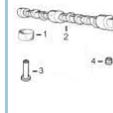
- › P0095250 x6

3) Nut, Con Rod

- › P33221327 x6

4) Con Rod

- › PZZ90010

**1) Bushing, Cam**

- › P31134128 x1

2) Camshaft

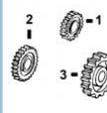
- › P31415261

3) Tappet

- › P0860012

4) Seal, Valve

- › P2415258
- › (Set of 3)

**1) Crankshaft, Gear**

- › P0410132

2) Camshaft Gear

- › P0410241

3) Idler Gear

- › P31164362

Valve Train Kit**a) 45 b) 35**

- › PVTK302
- › PVTK303

1) Valve, Intake**2) Valve, Exhaust****a) 45 b) 35**

- › 1a) P31431281 x3
- › 1b) P31431681 x3
- › 2a) P31431591 x3
- › 2b) P31431011 x3

3) Guide, Valve (Intake & Exhaust)

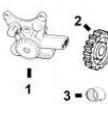
- › P33261723 x6

4) Spring, Valve a) Outer

- › 4a) P0780006 x6

5) Lock, Valve

- › P0230001 x12

**1) Oil Pump**

- › P41314078

2) Oil Pump Drive Gear

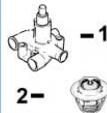
- › P41115025

3) Bushing, Drive Gear

- › P0050265

**Lift Pump**

- › P2641A063
- › P2641808

3
4**1) Water Pump w/o Pulley**

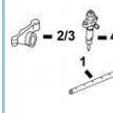
- › PU5MW0023

1) Water Pump with Pulley

- › P41312874

2) Thermostat

- › P2485666

**1) Rocker Shaft**

- › PZZ90047

2) Rocker Arm LH

- › P3737A101

3) Rocker Arm RH

- › P3737A091

4) Injector

- › P2645680
- › P2645732

7
8**1) Cylinder HD with Valves**

- › PZZ80082

2) Heater Plug

- › P2666108

(Bayonet Fitting)**3) Oil Pressure Switch**

- › P2848062

4) Insert, Valve Seat

- › P33124428 x3

9

(1): Use with Cylinder Head PZZ80082.

(3): To Engine No: U635848G (2 Hole).

(5): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(7): Check your Perkins Parts Catalog.

(9): Check build list for proper application use

(2): Use with Cylinder Head 68128.

(4): From Engine No: U635849G (4 Hole).

(6): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK307NB and nominate the bearings.

(8): Used on Build list CE31075 only.

PERKINS D3.152 FROM ESN UA391045DSL

Engine Series:
3.152

Engine Model:
D3.152 (CE)

Engine Desc:
DIRECT
INJECTION

Engine Data:
Lip Seal
From ESN
UA391045DSL



- 1) **Engine O/H Kit**
 - › POK306
- 2) **Basic Engine Kit**
 - › PBK306
 - › SPEC SHEET - D3.152 (CE)



- 1) **Piston-Liner Kit**
 - › PU5MK0117
- Consist of:**
 - › a) P89214
 - › b) P41158065
 - › c) P31358345
- 3 Per Engine**



- 1) **Main Bearing Set**
 - › P68084 Std.
 - › P68084A 0.010
 - › P68084B 0.020
 - › P68084C 0.030
- Set of 4 Pairs**



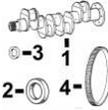
- 1) **Con Rod Bearing Set**
 - › P85036 Std.
 - › P85036A 0.010
 - › P85036B 0.020
 - › P85036C 0.030
- Set of 3 Pairs**



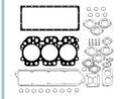
- 1) **Thrust Washer Set**
 - › P31137211/21
- Set of 2 Pairs**

Engine Info:
3 Cyl

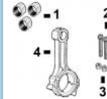
Engine Dimensions:
Bore: 3.6020
in / 91.491mm



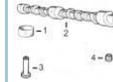
- 1) **Crankshaft Kit**
 - › PZZ90078
- 2) **Front Seal**
 - › P2415344
- 3) **Rear Seal**
 - › P2418F475
- 4) **Ring Gear**
 - › P0410236 115T
 - › P0410264 122T
 - › P31162121 126T



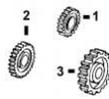
- 1) **Top Gasket Set**
 - › PU5LT0038
- 2) **Bottom Gasket**
 - › PU5LB0011
- 3) **Head Gasket**
 - › P3681E006



- 1) **Bush, Con Rod**
 - › P31134151 x3
- 2) **Bolt, Con Rod**
 - › P0095250 x6
- 3) **Nut, Con Rod**
 - › P33221327 x6
- 4) **Con Rod**
 - › PZZ90010



- 1) **Bushing, Cam**
 - › P31134128 x1
- 2) **Camshaft**
 - › P31415261
- 3) **Tappet**
 - › P0860012
- 4) **Seal, Valve**
 - › P2415258
 - › (Set of 3)



- 1) **Crankshaft, Gear**
 - › P0410132
- 2) **Camshaft Gear**
 - › P0410241
- 3) **Idler Gear**
 - › P31164362

Landini Tractors

5500
5530
5530F
5830
5840

Mf Agricultural

235 -
(CE22309)
235 -
(CE22310)
235 -
(CE22311)
245
250 -
(CE31089)

Mf Industrial

20C
30B

- 1) **Valve Train Kit**
 - › PVTK303



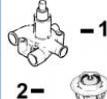
- 1) **Oil Pump**
 - › P41314078
- 2) **Oil Pump Drive Gear**
 - › P41115025
- 3) **Bushing, Drive Gear**
 - › P0050265

- 1) **Valve, Intake**
 - › P31431681 x3
- 2) **Valve, Exhaust**
 - › P31431011 x3



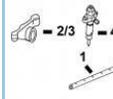
- 1) **Lift Pump**
 - › P2641A063
 - › P2641808

- 3) **Guide, Valve (Intake & Exhaust)**
 - › P33261723 x6



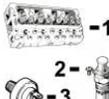
- 1) **Water Pump w/o Pulley**
 - › PU5MW0023
- 2) **Water Pump with Pulley**
 - › P41312874
- 3) **Thermostat**
 - › P2485666

- 4) **Spring, Valve a) Outer**
 - › 4a) P0780006 x6



- 1) **Rocker Shaft**
 - › PZZ90047
- 2) **Rocker Arm LH**
 - › P3737A101
- 3) **Rocker Arm RH**
 - › P3737A091
- 4) **Injector**
 - › P2645680

- 5) **Lock, Valve**
 - › P0230001 x12



- 1) **Cylinder HD with Valves**
 - › PZZ80082
- 2) **Heater Plug (Screw Fitting)**
 - › P2666103
- 3) **Oil Pressure Switch (Bayonet Fitting)**
 - › P2666108
- 4) **Insert, Valve Seat**
 - › P33124428 x3

(1): To Engine No: U635848G (2 Hole).

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(5): Check your Perkins Parts Catalog.

(2): From Engine No: U635849G (4 Hole).

(4): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK306NB and nominate the bearings.

(6): Check build list for proper application use

PERKINS 3.152.4 LIP SEAL

Engine Series:
3.152

Engine Model:
3.152.4 (CM)

Engine Data:
Lip Seal

Engine Info:
3 Cyl

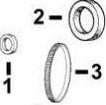
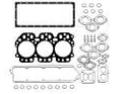
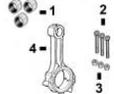
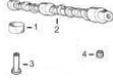
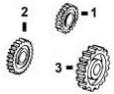
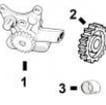
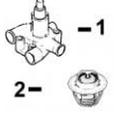
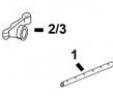
Engine Dimensions:
Bore: 3.6020 in /
91.491mm

Perkins

General Genset - (CM50184)

Fg-Wilson

Generator Set - (CM33513)

 <p>1) Engine O/H Kit • POK310</p> <p>2) Basic Engine Kit • PBK310 • SPEC SHEET - 3.152.4 (CM)</p>	 <p>Piston-Liner Kit • PCK1524</p> <p>Consist of: • a) PU5LP0017 • b) P41158144 • c) P31358345</p> <p>3 Per Engine</p>	 <p>Main Bearing Set • P68084 Std. 2 • P68084A 0.010 • P68084B 0.020 • P68084C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Con Rod Bearing Set • P85036 Std. 2 • P85036A 0.010 • P85036B 0.020 • P85036C 0.030</p> <p>Set of 3 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Ring Gear • P0410236 115T 3 • P31162121 126T 3</p>	 <p>1) Top Gasket Set • PU5LT0038</p> <p>2) Bottom Gasket • PU5LB0010</p> <p>3) Head Gasket • P3681E006</p>	 <p>1) Bush, Con Rod • P31134151 x3</p> <p>2) Bolt, Con Rod • P0095250 x6</p> <p>3) Nut, Con Rod • P33221327 x6</p> <p>4) Con Rod • PZZ90010</p>	 <p>1) Bushing, Cam • P31134128 x1</p> <p>2) Camshaft • P31415264</p> <p>3) Tappet • P0860012</p> <p>4) Seal, Valve • P2415258 • (Set of 3)</p>	 <p>1) Crankshaft, Gear • P0410132</p> <p>2) Camshaft Gear • P0410241</p> <p>3) Idler Gear • P31164362</p>
<p>Valve Train Kit • PVTK305</p>	<p>1) Valve, Intake • P31431981 x3</p> <p>2) Valve, Exhaust • P31431011 x3</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P33261727 x3 • 3b) P33261723 x3</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 x6 • 4b) P0780006 x6</p>	<p>5) Lock, Valve • P0230001 x12</p>
 <p>1) Oil Pump • P41314078</p> <p>2) Oil Pump Drive Gear • P41115025</p> <p>3) Bushing, Drive Gear • P0050265</p>	 <p>Lift Pump • P2641808</p>	 <p>1) Water Pump w/o Pulley • PU5MW0023</p> <p>1) Water Pump with Pulley • P41312874</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90047</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Heater Plug • P2666108</p> <p>(Bayonet Fitting)</p> <p>2) Oil Pressure Switch • P2848062 3</p> <p>3) Insert, Valve Seat • P33124428 x3</p>

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK310NB and nominate the bearings.

(3): Check build list for proper application use

PERKINS T3.152.4 LIP SEAL

Engine Series:
3.152

Engine Model:
T3.152.4 (CN)

Engine Data:
Lip Seal

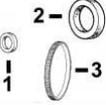
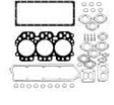
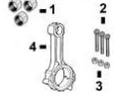
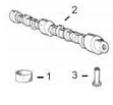
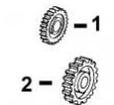
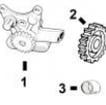
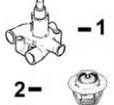
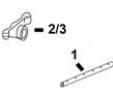
Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in /
91.491mm

Mf Agricultural

253 - (CN31219)
355 - (CN31187)

264 - (CN31214)

 <p>1) Engine O/H Kit • POK311</p> <p>2) Basic Engine Kit • PBK311 • SPEC SHEET - T3.152.4 (CN)</p>	 <p>Piston-Liner Kit • PCK1524</p> <p>Consist of: • a) PU5LP0017 • b) P41158144 • c) P31358345</p> <p>3 Per Engine</p>	 <p>Main Bearing Set • P68084 Std. 2 • P68084A 0.010 • P68084B 0.020 • P68084C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Con Rod Bearing Set • P85036 Std. 2 • P85036A 0.010 • P85036B 0.020 • P85036C 0.030</p> <p>Set of 3 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Ring Gear • P0410236 115T 3 • P31162121 126T 3</p>	 <p>1) Top Gasket Set • PU5LT0080</p> <p>2) Bottom Gasket • PU5LB0011</p> <p>3) Head Gasket • P3681E006</p>	 <p>1) Bush, Con Rod • P31134151 x3</p> <p>2) Bolt, Con Rod • P0095250 x6</p> <p>3) Nut, Con Rod • P33221327 x6</p> <p>4) Con Rod • PZZ90010</p>	 <p>1) Bushing, Cam • P31134128 x1</p> <p>2) Camshaft • P31415261</p> <p>3) Tappet • P0860012</p>	 <p>1) Camshaft Gear • P0410241</p> <p>2) Idler Gear • P31164362</p>
<p>Valve Train Kit • PVTK306</p>	<p>1) Valve, Intake • P31431741 x3</p> <p>2) Valve, Exhaust • P31431731 x3</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P33261727 x3 • 3b) P33261723 x3</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 x6 • 4b) P0780006 x6</p>	<p>5) Lock, Valve • P0230001 x12</p>
 <p>1) Oil Pump • P41314078</p> <p>2) Oil Pump Drive Gear • P41115025</p> <p>3) Bushing, Drive Gear • P0050265</p>	 <p>Lift Pump • P2641808</p>	 <p>1) Water Pump w/o Pulley • PU5MW0023</p> <p>1) Water Pump with Pulley • P41312874</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90047</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Heater Plug • P2666108</p> <p>(Bayonet Fitting)</p> <p>2) Insert, Valve Seat • P33124428 x3</p>

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available, all of which including P31358345 are flanged

(2): Use Main Bearing Set, PU5MB0014, from ESN U983574C. For engine kit with these bearings, order POK311NB and nominate the bearings.

PERKINS G3.152

Engine Series:
3.152

Engine Model:
G3.152 (CF)

Engine Desc:
GASOLINE ENGINE

Engine Data:
Rope Seal

Engine Info:
3 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Mf Agricultural
135

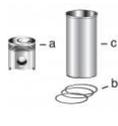
150

Mf Industrial
20
2500 - Forklift

40



- 1) **Engine O/H Kit**
‣ POK308
- 2) **Basic Engine Kit**
‣ PBK308
‣ SPEC SHEET - G3.152 (CF)



- Piston-Liner Kit**
‣ PCK154
 - Consist of:**
 - a) P86723
 - b) P41158012
 - c) P31358345
- 3 Per Engine**



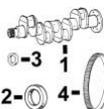
- Main Bearing Set**
‣ P68084 Std.
‣ P68084A 0.010
‣ P68084B 0.020
‣ P68084C 0.030
- Set of 4 Pairs**



- Con Rod Bearing Set**
‣ P85036 Std.
‣ P85036A 0.010
‣ P85036B 0.020
‣ P85036C 0.030
- Set of 3 Pairs**



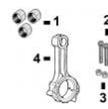
- Thrust Washer Set**
‣ P31137211/21
- Set of 2 Pairs**



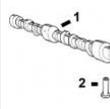
- 1) **Front Seal**
‣ P2415344
- 2) **Rear Seal**
‣ P36883106 x2
- 3) **Crankshaft Kit**
‣ PZZ90116
- 4) **Ring Gear**
‣ P0410236 115T
‣ P31162121 126T



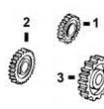
- 1) **Top Gasket Set**
‣ PU5LT0037
- 2) **Bottom Gasket**
‣ PU5LB0012
- 3) **Head Gasket**
‣ P3681E006



- 1) **Bush, Con Rod**
‣ P31134151 x3
- 2) **Bolt, Con Rod**
‣ P0095250 x6
- 3) **Nut, Con Rod**
‣ P33221327 x6
- 4) **Con Rod**
‣ PZZ90011



- 1) **Camshaft**
‣ P31415261
- 2) **Tappet**
‣ P0860012



- 1) **Crankshaft, Gear**
‣ P0410132
- 2) **Camshaft Gear**
‣ P0410241
- 3) **Idler Gear**
‣ P31164362

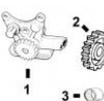
Valve Train Kit
‣ PVTK304

- 1) **Valve, Intake**
‣ P31431741 x3
- 2) **Valve, Exhaust**
‣ P31431731 x3

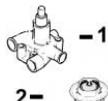
- 3) **Guide, Valve (Intake & Exhaust)**
‣ P3313E011 x6

- 4) **Spring, Valve**
 - a) **Outer**
‣ 4a) P0780006 x6

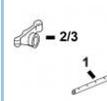
- 5) **Lock, Valve**
‣ P0230001 x12



- 1) **Oil Pump**
‣ P41314078
- 2) **Oil Pump Drive Gear**
‣ P41115025
- 3) **Bushing, Drive Gear**
‣ P0050265



- 1) **Water Pump w/o Pulley**
‣ PU5MW0023
- 1) **Water Pump with Pulley**
‣ P41312784
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90047
- 2) **Rocker Arm LH**
‣ P3737A101
- 3) **Rocker Arm RH**
‣ P3737A091

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" (2): Check build list for proper application use
P31358384, are also available.

PERKINS 4.108 INDUSTRIAL

Engine Series:
4.108

Engine Model:
4.108 (ED)

Engine Desc:
INDUSTRIAL

Engine Data:
Rope Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.1250 in
/ 79.375 mm

Mustang

445 - Skid Steer

Clark Equipment

800 - Skid Steer
825 - Skid Steer

Owattona-Mfg

445 - Skid Loader (ED70035)

Gehl

4600 - Skid Steer
4625 - Skid Steer
SL4615 - Skid Steer
SL4610 - Skid Steer

Melroe

E146 - Loader (ED70075)

Vermeer-Mfg

M434-4 - Trencher (ED70077)

Sperry-New-Holland

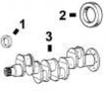
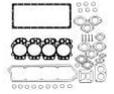
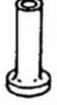
L555 - Skid Loader (ED70077)

New-Holland

L555 - Skid Steer

Bobcat

825 - Skid Steer

 <p>1) Engine O/H Kit ‣ POK410</p> <p>2) Basic Engine Kit ‣ PBK410 ‣ SPEC SHEET - 4.108</p>	 <p>Piston-Liner Kit ‣ PU5MK0118</p> <p>Consist of: ‣ a) P69491 ‣ b) P41158008 ‣ c) P31358117</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P84992 <i>Std.</i> ‣ P84992A 0.010 ‣ P84992B 0.020 ‣ P84992C 0.030</p> <p>Set of 3 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85037 <i>Std.</i> ‣ P85037A 0.010 ‣ P85037B 0.020 ‣ P85037C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P0921120/118</p> <p>Set of 3 Pcs</p>
 <p>1) Front Seal ‣ P2415338</p> <p>2) Rear Seal ‣ P36883107 <i>x2</i></p> <p>3) Crankshaft Kit ‣ PZZ90160</p>	 <p>1) Top Gasket Set ‣ P92425</p> <p>2) Bottom Gasket ‣ PU5LB0013</p> <p>3) Head Gasket ‣ P36812134</p>	 <p>Bush, Con Rod ‣ P31134145 <i>x4</i></p>	 <p>Tappet ‣ P31434152</p>	
<p>Valve Train Kit</p>	<p>1) Valve, Intake ‣ P0910060 <i>x4</i></p> <p>2) Valve, Exhaust ‣ P0910061 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3313E001 <i>x4</i> ‣ 3b) P33261723 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P0780143 <i>x8</i> ‣ 4b) P0780144 <i>x8</i></p>	<p>5) Lock, Valve ‣ P0230001 <i>x16</i></p> <p>6) Seal, Valve ‣ P33817403 <i>x8</i></p>
 <p>Oil Pump ‣ P41314089</p>	 <p>Lift Pump ‣ P2641A058</p>	 <p>1) Water Pump ‣ PU5MW0054</p> <p>2) Thermostat ‣ P2485666</p>	 <p>Rocker Shaft Bush ‣ P0050132</p>	 <p>Oil Pressure Switch ‣ P2848062</p>

(1): Set of 4 Rings.

(2): Check Against Build Number.

Engine Series: 4.108 **Engine Model:** 4.108 (ED) **Engine Desc:** MARINE **Engine Data:** Rope Seal **Engine Info:** 4 Cyl

Engine Dimensions:
Bore: 3.1250 in / 79.375 mm

Marine

Commercial Craft - (ED70058)
Pleasure Craft - (ED33210)
Pleasure Craft - (ED70058)

Perkins USA - (ED22195)
Pleasure Craft - (ED50033)

 <p>1) Engine O/H Kit • POK411</p> <p>2) Basic Engine Kit • PBK411 • SPEC SHEET - 4.108</p>	 <p>Piston-Liner Kit • PU5MK0061</p> <p>Consist of: • a) P68383 • b) P41158087 • c) P31358117</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P84992 <i>Std.</i> • P84992A <i>0.010</i> • P84992B <i>0.020</i> • P84992C <i>0.030</i></p> <p>Set of 3 Pairs</p>	 <p>Con Rod Bearing Set • P85037 <i>Std.</i> • P85037A <i>0.010</i> • P85037B <i>0.020</i> • P85037C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P0921120/118</p> <p>Set of 3 Pcs</p>
 <p>1) Front Seal • P0730098</p> <p>2) Rear Seal • P36883107 <i>x2</i></p> <p>3) Crankshaft Kit • PZZ90160</p>	 <p>1) Top Gasket Set • P85786</p> <p>2) Bottom Gasket • PU5LB0013</p> <p>3) Head Gasket • P36812134</p>	 <p>Bush, Con Rod • P31134145 <i>x4</i></p>	 <p>Tappet • P31434152</p>	
<p>Valve Train Kit • PVTK400</p>	<p>1) Valve, Intake • P0910060 <i>x4</i></p> <p>2) Valve, Exhaust • P0910061 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3313E001 <i>x4</i> • 3b) P33261723 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780143 <i>x8</i> • 4b) P0780144 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p> <p>6) Seal, Valve • P33817403 <i>x8</i></p>
 <p>Oil Pump • P41314089</p>	 <p>Lift Pump • P2641A058</p>	 <p>1) Water Pump • PU5MW0054</p> <p>2) Thermostat • P2485608</p>	 <p>Rocker Shaft Bush • P0050132</p>	 <p>1) Heater Plug • P2666108 (Bayonet Fitting)</p> <p>2) Oil Pressure Switch • P2848062</p>

(1): Set of 5 Rings.
(3): Semi-Finished Liner

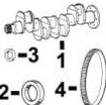
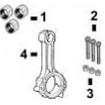
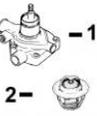
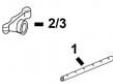
(2): Check Against Build Number.

Engine Series: 4.203	Engine Model: 4.203 (JD)	Engine Desc: INDIRECT INJECTION	Engine Data: Rope Seal To ESN 2820092	Engine Info: 4 Cyl
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Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
65

MF Industrial
356 - Tractor Shovel

 <p>1) Engine O/H Kit • POK430</p> <p>2) Basic Engine Kit • PBK430 • SPEC SHEET - 4.203 (JD)</p>	 <p>Piston-Liner Kit • PCK152</p> <p>Consist of:</p> <p>a) P81512 (1)</p> <p>b) P41158057 (2)</p> <p>c) P31358308</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 <i>Std.</i> • P68082A <i>0.010</i> • P68082B <i>0.020</i> • P68082C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 <i>Std.</i> • P85035A <i>0.010</i> • P85035B <i>0.020</i> • P85035C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P36883106 <i>x2</i></p> <p>3) Crankshaft Kit • PZZ90121</p> <p>4) Ring Gear • P0410264 <i>122T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • P69036</p> <p>2) Bottom Gasket • PU5LB0500</p> <p>3) Head Gasket • P36812125</p>	 <p>1) Bush, Con Rod • P31134151 <i>x4</i></p> <p>2) Bolt, Con Rod • P0095250 <i>x8</i></p> <p>3) Nut, Con Rod • P33221327 <i>x8</i></p> <p>4) Con Rod • PZZ90011</p>	 <p>1) Bushing, Cam • P31134119 <i>x1</i></p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK404</p>	<p>1) Valve, Intake • P31431261 <i>x4</i></p> <p>2) Valve, Exhaust • P0910002 <i>x4</i></p>	<p>3) Guide, Valve (Intake & Exhaust) • P33261723 <i>x8</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 <i>x8</i> • 4b) P0780006 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641A065</p>	 <p>1) Water Pump w/o Pulley • PU5MW0061</p> <p>1) Water Pump with Pulley • P41312892</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Cylinder HD with Valves</p> <p>2) Heater Plug • P2666103 (Screw Fitting) • P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch • P2848062 (3)</p>

(1): Flat Head Piston.
(3): Check for proper application.

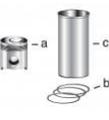
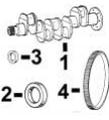
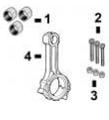
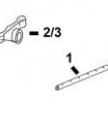
(2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

Engine Series: 4.203 **Engine Model:** 4.203 (JD) **Engine Desc:** INDIRECT INJECTION **Engine Data:** Rope Seal
From ESN 2820093 **Engine Info:** 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

MF Agricultural
65

MF Industrial
356 - Tractor Shovel

 <p>1) Engine O/H Kit • POK431</p> <p>2) Basic Engine Kit • PBK431 • SPEC SHEET - 4.203 (JD)</p>	 <p>Piston-Liner Kit • PU5MK0033</p> <p>Consist of:</p> <p>a) P81512 (1)</p> <p>b) P41158057</p> <p>c) P31358345 (2)</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 <i>Std.</i> • P68082A <i>0.010</i> • P68082B <i>0.020</i> • P68082C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 <i>Std.</i> • P85035A <i>0.010</i> • P85035B <i>0.020</i> • P85035C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P36883106 <i>x2</i></p> <p>3) Crankshaft Kit • PZZ90121</p> <p>4) Ring Gear • P0410264 <i>122T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • P69036</p> <p>2) Bottom Gasket • PU5LB0500</p> <p>3) Head Gasket • P36812125</p>	 <p>1) Bush, Con Rod • P31134151 <i>x4</i></p> <p>2) Bolt, Con Rod • P0095250 <i>x8</i></p> <p>3) Nut, Con Rod • P33221327 <i>x8</i></p> <p>4) Con Rod • PZZ90011</p>	 <p>1) Bushing, Cam • P31134119 <i>x1</i></p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK404</p>	<p>1) Valve, Intake • P31431261 <i>x4</i></p> <p>2) Valve, Exhaust • P0910002 <i>x4</i></p>	<p>3) Guide, Valve (Intake & Exhaust) • P33261723 <i>x8</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 <i>x8</i> • 4b) P0780006 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641A065</p>	 <p>1) Water Pump w/o Pulley • PU5MW0061</p> <p>1) Water Pump with Pulley • P41312892</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Cylinder HD with Valves •</p> <p>2) Heater Plug (Screw Fitting) • P2666103 • P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch • P2848062 (3)</p>

(1): Flat Head Piston.

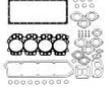
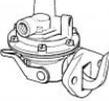
(2): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

(3): Check for proper application.

Engine Series: 4.203	Engine Model: 4.203 (JD)	Engine Desc: INDIRECT INJECTION	Engine Data: Rope & Lip Seal (Both types included in kit)	Engine Info: 4 Cyl
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Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Clark Equipment C60-70-80 - (JD21383) CY40-60 - (JD22117)	CY30-40-55 - (JD21708)	Hyster H40F - (JD20074) S60B-H60C - (JD20680)	H40H - (JD21708)
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 <p>1) Engine O/H Kit • POK438</p> <p>2) Basic Engine Kit • PBK438 • SPEC SHEET - 4.203 (JD)</p>	 <p>Piston-Liner Kit • PCK152</p> <p>Consist of:</p> <p>a) P81512 1</p> <p>b) P41158057 2</p> <p>c) P31358308</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 Std. • P68082A 0.010 • P68082B 0.020 • P68082C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 Std. • P85035A 0.010 • P85035B 0.020 • P85035C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P36883106 x2 • P2418F475</p> <p>3) Crankshaft Kit</p> <p>4) Ring Gear • P0410264 122T • P31162121 126T</p>	 <p>1) Top Gasket Set • P69036</p> <p>2) Bottom Gasket • PU5LB0015</p> <p>3) Head Gasket • P36812125</p>	 <p>1) Bush, Con Rod • P31134151 x4</p> <p>2) Bolt, Con Rod • P0095250 x8</p> <p>3) Nut, Con Rod • P33221327 x8</p> <p>4) Con Rod • PZZ90011</p>	 <p>1) Bushing, Cam • P31134119 x1</p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK404</p>	<p>1) Valve, Intake • P31431261 x4</p> <p>2) Valve, Exhaust • P0910002 x4</p>	<p>3) Guide, Valve (Intake & Exhaust) • P33261723 x8</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 x8 • 4b) P0780006 x8</p>	<p>5) Lock, Valve • P0230001 x16</p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641336</p>	 <p>1) Water Pump • PU5MW0088</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Cylinder HD with Valves</p> <p>•</p> <p>2) Heater Plug • P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch • P2848062 4</p>

(1): Flat Head Piston.

(3): Lip Seal Crankshaft from ESN U74103CL.

(2): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

(4): Check for proper application.

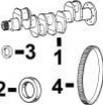
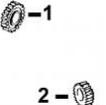
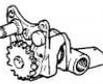
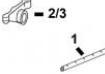
Engine Series: 4.203 **Engine Model:** 4.203 (JD) **Engine Desc:** INDIRECT INJECTION **Engine Data:** Lip Seal **Engine Info:** 4 Cyl

Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Allis Chalmers

40 - Forklift (JD22458)
700 - Forklift (JD22028)
ACP50D - (JD22533)

50 - Forklift (JD22458)
ACP40 - (JD22533)

 <p>1) Engine O/H Kit • POK439</p> <p>2) Basic Engine Kit • PBK439 • SPEC SHEET - 4.203 (JD)</p>	 <p>Piston-Liner Kit • PU5MK0033</p> <p>Consist of:</p> <ul style="list-style-type: none"> • a) P81512 • b) P41158057 • c) P31358345 <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 Std.</p> <ul style="list-style-type: none"> • P68082A 0.010 • P68082B 0.020 • P68082C 0.030 <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 Std.</p> <ul style="list-style-type: none"> • P85035A 0.010 • P85035B 0.020 • P85035C 0.030 <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit</p> <p>4) Ring Gear • P0410264 122T • P31162121 126T</p>	 <p>1) Top Gasket Set • P69036</p> <p>2) Bottom Gasket • PU5LB0015</p> <p>3) Head Gasket • P36812125</p>	 <p>1) Bush, Con Rod • P31134151 x4</p> <p>2) Bolt, Con Rod • P0095250 x8</p> <p>3) Nut, Con Rod • P33221327 x8</p> <p>4) Con Rod • PZZ90011</p>	 <p>1) Bushing, Cam • P31134119 x1</p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK404</p>	<p>1) Valve, Intake • P31431261 x4</p> <p>2) Valve, Exhaust • P0910002 x4</p>	<p>3) Guide, Valve (Intake & Exhaust) • P33261723 x8</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 x8 • 4b) P0780006 x8</p>	<p>5) Lock, Valve • P0230001 x16</p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641A065 • P2641336</p>	 <p>1) Water Pump • PU5MW0088</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>1) Cylinder HD with Valves</p> <ul style="list-style-type: none"> • 2) Heater Plug (Screw Fitting) • P2666103 • 2) Heater Plug (Bayonet Fitting) • P2666108 • 3) Oil Pressure Switch • P2848062

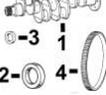
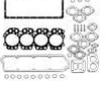
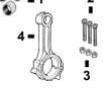
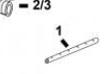
(1): Use on Build No: JD22028.

(3): Flat Head Piston.

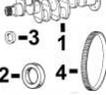
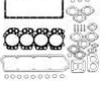
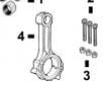
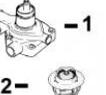
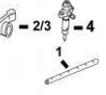
(5): Check for proper application.

(2): Use on Build No: JD22458/JD22533.

(4): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

<p>Engine Series: 4.203</p> <p>Engine Model: D4.203 (JE)</p> <p>Engine Desc: DIRECT INJECTION</p> <p>Engine Data: Rope Seal ESN 2939036-29C1084</p>	 <p>1) Engine O/H Kit ‣ POK433</p> <p>2) Basic Engine Kit ‣ PBK433 ‣ SPEC SHEET - D4.203 (JE)</p>	 <p>Piston-Liner Kit ‣ PU5MK0034</p> <p>Consist of: ‣ a) P68332 ‣ b) P41158057 ‣ c) P31358345</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P68082 Std. ‣ P68082A 0.010 ‣ P68082B 0.020 ‣ P68082C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85035 Std. ‣ P85035A 0.010 ‣ P85035B 0.020 ‣ P85035C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137211/21</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.6020 in / 91.491mm</p>	 <p>1) Front Seal ‣ P2415344</p> <p>2) Rear Seal ‣ P36883106 x2</p>	 <p>1) Top Gasket Set ‣ PU5LT0069</p> <p>2) Bottom Gasket ‣ P82908</p> <p>3) Head Gasket ‣ P36812138</p>	 <p>1) Bush, Con Rod ‣ P31134151 x4</p> <p>2) Bolt, Con Rod ‣ P0095250 x8</p> <p>3) Nut, Con Rod ‣ P33221327 x8</p> <p>4) Con Rod ‣ PZZ90010</p>	 <p>1) Bushing, Cam ‣ P31134119 x1</p> <p>2) Tappet ‣ P0860012</p>	 <p>1) Idler Gear, Lower ‣ P41115004</p> <p>2) Idler Gear, Upper ‣ P41115005</p>
<p>Mf Agricultural 65 165 255 300 - Combine</p> <p>Mf Industrial 302 304 356 3165 - Tractor Shovel</p>	<p>3) Crankshaft Kit ‣ PZZ90121</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P31162121 126T</p>	<p>1) Valve, Intake ‣ P31431281 x4</p> <p>2) Valve, Exhaust ‣ P31431591 x4</p>	<p>3) Guide, Valve (Intake & Exhaust) ‣ 3) P33261723 x8</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P0780007 x8 ‣ 4b) P0780006 x8</p>	<p>5) Lock, Valve ‣ P0230001 x16</p>
 <p>Oil Pump ‣ P41314164</p>	 <p>Lift Pump ‣ P2641A065</p>	 <p>1) Water Pump w/o Pulley ‣ PU5MW0061</p> <p>1) Water Pump with Pulley ‣ P41312892</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90139</p> <p>2) Rocker Arm LH ‣ P3737A101</p> <p>3) Rocker Arm RH ‣ P3737A091</p> <p>4) Injector ‣ P2645680</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80078</p> <p>2) Heater Plug (Screw Fitting) ‣ P2666103 ‣ P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p> <p>4) Insert, Valve Seat ‣ P33124428 x4</p>	

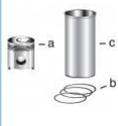
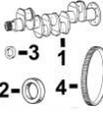
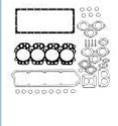
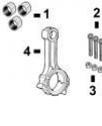
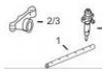
(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available. (2): Check your Perkins Parts Catalog. (3): Check for proper application.

<p>Engine Series: 4.203</p> <p>Engine Model: D4.203 (JE)</p> <p>Engine Desc: DIRECT INJECTION</p> <p>Engine Data: Rope Seal To ESN 2939035</p>	 <p>1) Engine O/H Kit ‣ POK432</p> <p>2) Basic Engine Kit ‣ PBK432 ‣ SPEC SHEET - D4.203 (JE)</p>	 <p>Piston-Liner Kit ‣ PCK153</p> <p>Consist of: ‣ a) P68332 ‣ b) P41158057 ‣ c) P31358308</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P68082 Std. ‣ P68082A 0.010 ‣ P68082B 0.020 ‣ P68082C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85035 Std. ‣ P85035A 0.010 ‣ P85035B 0.020 ‣ P85035C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137211/21</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.6020 in / 91.491mm</p> <p>MF Agricultural 65</p> <p>MF Industrial 365 - Tractor Shovel</p>	 <p>1) Front Seal ‣ P2415344</p> <p>2) Rear Seal ‣ P36883106 x2</p> <p>3) Crankshaft Kit ‣ PZZ90121</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0069</p> <p>2) Bottom Gasket ‣ P82908</p> <p>3) Head Gasket ‣ P36812138</p>	 <p>1) Bush, Con Rod ‣ P31134151 x4</p> <p>2) Bolt, Con Rod ‣ P0095250 x8</p> <p>3) Nut, Con Rod ‣ P33221327 x8</p> <p>4) Con Rod ‣ PZZ90010</p>	 <p>1) Bushing, Cam ‣ P31134119 x1</p> <p>2) Tappet ‣ P0860012</p>	 <p>1) Idler Gear, Lower ‣ P41115004</p> <p>2) Idler Gear, Upper ‣ P41115005</p>
<p>Valve Train Kit ‣ PVTK405</p>	<p>1) Valve, Intake ‣ P31431281 x4</p> <p>2) Valve, Exhaust ‣ P31431591 x4</p>	<p>3) Guide, Valve (Intake & Exhaust) ‣ P33261723 x8</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P0780007 x8 ‣ 4b) P0780006 x8</p>	<p>5) Lock, Valve ‣ P0230001 x16</p>	
 <p>Oil Pump ‣ P41314164</p>	 <p>Lift Pump ‣ P2641A065</p>	 <p>1) Water Pump w/o Pulley ‣ PU5MW0061</p> <p>1) Water Pump with Pulley ‣ P41312892</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90139</p> <p>2) Rocker Arm LH ‣ P3737A101</p> <p>3) Rocker Arm RH ‣ P3737A091</p> <p>4) Injector ‣ P2645680</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80078</p> <p>2) Heater Plug (Screw Fitting) ‣ P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p> <p>4) Insert, Valve Seat ‣ P33124428 x4</p>	

(1): Cast sleeve replaces OEM Chrome Liner with Flange thickness 0.040".

(2): Check your Perkins Parts Catalog.

(3): Check for proper application.

<p>Engine Series: 4.203</p> <p>Engine Model: D4.203 (JE)</p> <p>Engine Desc: DIRECT INJECTION</p> <p>Engine Data: Rope & Lip Seal (Both types included in kit) From ESN 29C1085</p> <p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.6020 in / 91.491mm</p> <p>Mf Agricultural 65 165 255 300 - Combine</p> <p>Mf Industrial 30 40B 50 302 356 3165 - Tractor Shovel</p>	 <p>1) Engine O/H Kit ‣ POK434</p> <p>2) Basic Engine Kit ‣ PBK434 ‣ SPEC SHEET - D4.203 (JE)</p>	 <p>Piston-Liner Kit ‣ PU5MK0034</p> <p>Consist of: ‣ a) P68332 ‣ b) P41158057 ‣ c) P31358345</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P68082 Std. ‣ P68082A 0.010 ‣ P68082B 0.020 ‣ P68082C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85035 Std. ‣ P85035A 0.010 ‣ P85035B 0.020 ‣ P85035C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137211/21</p> <p>Set of 2 Pairs</p>
	 <p>1) Front Seal ‣ P2415344</p> <p>2) Rear Seal ‣ P36883106 x2 ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90121 ‣ PZZ90111</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0069</p> <p>2) Bottom Gasket ‣ P82908</p> <p>3) Head Gasket ‣ P36812138</p>	 <p>1) Bush, Con Rod ‣ P31134151 x4</p> <p>2) Bolt, Con Rod ‣ P0095250 x8</p> <p>3) Nut, Con Rod ‣ P33221327 x8</p> <p>4) Con Rod ‣ PZZ90010</p>	 <p>1) Bushing, Cam ‣ P31134119 x1</p> <p>2) Tappet ‣ P0860012</p>	 <p>1) Idler Gear, Lower ‣ P41115004</p> <p>2) Idler Gear, Upper ‣ P41115005</p>
	<p>Valve Train Kit ‣ PVTK405</p>	<p>1) Valve, Intake ‣ P31431281 x4</p> <p>2) Valve, Exhaust ‣ P31431591 x4</p>	<p>3) Guide, Valve (Intake & Exhaust) ‣ P33261723 x8</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P0780007 x8 ‣ 4b) P0780006 x8</p>	<p>5) Lock, Valve ‣ P0230001 x16</p>
	 <p>Oil Pump ‣ P41314164</p>	 <p>Lift Pump ‣ P2641A065</p>	 <p>1) Water Pump w/o Pulley ‣ PU5MW0061</p> <p>1) Water Pump with Pulley ‣ P41312892</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90139</p> <p>2) Rocker Arm LH ‣ P3737A101</p> <p>3) Rocker Arm RH ‣ P3737A091</p> <p>4) Injector ‣ P2645680</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80078</p> <p>2) Heater Plug (Screw Fitting) ‣ P2666103</p> <p>2) Heater Plug (Bayonet Fitting) ‣ P2666108</p> <p>3) Oil Pressure Switch ‣ P2848062</p> <p>4) Insert, Valve Seat ‣ P33124428 x4</p>

(1): Rope Seal.

(2): Lip Seal.

(3): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available.

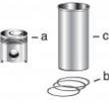
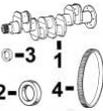
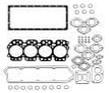
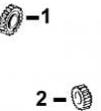
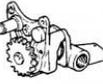
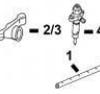
(4): Check your Perkins Parts Catalog.

Engine Series: 4.203	Engine Model: D4.203 (JE)	Engine Desc: DIRECT INJECTION	Engine Data: Lip Seal To ESN U589378L	Engine Info: 4 Cyl
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Engine Dimensions:
Bore: 3.6020 in / 91.491mm

Sullair Corp
Compressor - (JE70033)

Perkins
General Industrial - (JE33174)

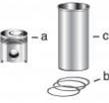
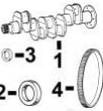
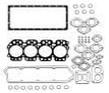
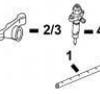
 <p>1) Engine O/H Kit • POK436</p> <p>2) Basic Engine Kit • PBK436 • SPEC SHEET - D4.203 (JE)</p>	 <p>Piston-Liner Kit • PU5MK0034</p> <p>Consist of:</p> <p>a) P68332 b) P41158057 c) P31358345</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 <i>Std.</i> • P68082A <i>0.010</i> • P68082B <i>0.020</i> • P68082C <i>0.030</i></p> <p>1 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 <i>Std.</i> • P85035A <i>0.010</i> • P85035B <i>0.020</i> • P85035C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit</p> <p>4) Ring Gear • P0410236 <i>115T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • PU5LT0084</p> <p>2) Bottom Gasket • PU5LB0015</p> <p>3) Head Gasket • P36812138</p>	 <p>1) Bush, Con Rod • P31134151 <i>x4</i></p> <p>2) Bolt, Con Rod • P0095250 <i>x8</i></p> <p>3) Nut, Con Rod • P33221327 <i>x8</i></p> <p>4) Con Rod • PZZ90010</p>	 <p>1) Bushing, Cam • P31134119 <i>x1</i></p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK420</p>	<p>1) Valve, Intake • P31431681 <i>x4</i></p> <p>2) Valve, Exhaust • P31431991 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P33261727 <i>x4</i> • 3b) P33261723 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 <i>x8</i> • 4b) P0780006 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641A054</p>	 <p>1) Water Pump • PU5MW0088</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p> <p>4) Injector • P2645680</p>	 <p>Oil Pressure Switch • P2848062</p> <p>Insert, Valve Seat • P33124428 <i>x4</i></p>

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" (2): Check your Perkins Parts Catalog.
P31358384, are also available.

Engine Series: 4.203	Engine Model: D4.203 (JE)	Engine Desc: DIRECT INJECTION	Engine Data: Lip Seal From ESN U589379L	Engine Info: 4 Cyl
Engine Dimensions: Bore: 3.6020 in / 91.491mm				

Sullair-Corp
Compressor - (JE33174)

Perkins
Compressor - (JE70033)

 <p>1) Engine O/H Kit • POK437</p> <p>2) Basic Engine Kit • PBK437 • SPEC SHEET - D4.203 (JE)</p>	 <p>Piston-Liner Kit • PU5MK0117</p> <p>Consist of:</p> <ul style="list-style-type: none"> • a) P89214 • b) P41158065 • c) P31358345 <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 <i>Std.</i> • P68082A <i>0.010</i> • P68082B <i>0.020</i> • P68082C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 <i>Std.</i> • P85035A <i>0.010</i> • P85035B <i>0.020</i> • P85035C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit</p> <p>4) Ring Gear • P0410236 <i>115T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • PU5LT0084</p> <p>2) Bottom Gasket • PU5LB0015</p> <p>3) Head Gasket • P36812138</p>	 <p>1) Bush, Con Rod • P31134151 <i>x4</i></p> <p>2) Bolt, Con Rod • P0095250 <i>x8</i></p> <p>3) Nut, Con Rod • P33221327 <i>x8</i></p> <p>4) Con Rod • PZZ90010</p>	 <p>1) Bushing, Cam • P31134119 <i>x1</i></p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK420</p>	<p>1) Valve, Intake • P31431681 <i>x4</i></p> <p>2) Valve, Exhaust • P31431991 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P33261727 <i>x4</i> • 3b) P33261723 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 <i>x8</i> • 4b) P0780006 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p>
 <p>Oil Pump • P41314164</p>	 <p>Lift Pump • P2641A054</p>	 <p>1) Water Pump • PU5MW0088</p> <p>2) Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p> <p>4) Injector • P2645680</p>	 <p>Oil Pressure Switch • P2848062</p> <p>Insert, Valve Seat • P33124428 <i>x4</i></p>

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available. (2): Check your Perkins Parts Catalog.

Engine Series: 4.203	Engine Model: 4.203.2 (JG)	Engine Data: Lip Seal	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.6020 in / 91.491mm
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Clark-Equipment C500 (H) C500Y-40- 60-70-80D 560 - - (JG70100) (JG70099) C500Y-40- 560 - (JG70143)	Hyster H60-80C - H60-80E - (JG70040) (JG70113)	Allis-Chalmers JCP 40-50 - Forklift(JG80031)	Caterpillar V40-60C - V/T40C - Forklift Forklift (JG70020) (JG70092) T40C - VT40C - Forklift Forklift(JG70092) (JG70092)	Sperry-New-Holland L779 - Skid L779 - Skid Steer Steer Loader Loader (JG70043) (JG70156)
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- 1) **Engine O/H Kit**
• POK435
- 2) **Basic Engine Kit**
• PBK435
• SPEC SHEET -
4.203.2 (JG)



- Piston-Liner Kit**
• PU5MK0122
- Consist of:**
• a) P68801
• b) P41158007
• c) P31358345
- 4 Per Engine**



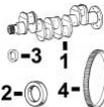
- Main Bearing Set**
• P68082 *Std.*
• P68082A *0.010*
• P68082B *0.020*
• P68082C *0.030*
- Set of 5 Pairs**



- Con Rod Bearing Set**
• P85035 *Std.*
• P85035A *0.010*
• P85035B *0.020*
• P85035C *0.030*
- Set of 4 Pairs**



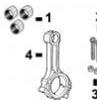
- Thrust Washer Set**
• P31137211/21
- Set of 2 Pairs**



- 1) **Front Seal**
• P2415344
- 2) **Rear Seal**
• P2418F475
- 3) **Crankshaft Kit**
- 4) **Ring Gear**
• P0410264 *122T*
• P31162121 *126T*



- 1) **Top Gasket Set**
• PU5LT0084
- 2) **Bottom Gasket**
• PU5LB0015
- 3) **Head Gasket**
• P36812138



- 1) **Bush, Con Rod**
• P31134151 *x4*
- 2) **Bolt, Con Rod**
• P0095250 *x8*
- 3) **Nut, Con Rod**
• P33221327 *x8*
- 4) **Con Rod**
• PZZ90010



- 1) **Bushing, Cam**
• P31134119 *x1*
- 2) **Tappet**
• P0860012



- 1) **Idler Gear, Lower**
• P41115004
- 2) **Idler Gear, Upper**
• P41115005

- Valve Train Kit**
• PVTK418

- 1) **Valve, Intake**
• P31431981 *x4*
- 2) **Valve, Exhaust**
• P31431991 *x4*

- 3) **Guide, Valve**
a) Intake b) Exhaust
• 3a) P33261727 *x4*
• 3b) P33261723 *x4*

- 4) **Spring, Valve**
a) Inner b) Outer
• 4a) P0780007 *x8*
• 4b) P0780006 *x8*

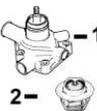
- 5) **Lock, Valve**
• P0230001 *x16*
- 6) **Valve Stem Seal**
• P2415258 *x4*



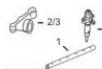
- Oil Pump**
• P41314164



- Lift Pump**
• P2641A054



- 1) **Water Pump**
• PU5MW0088
- 2) **Thermostat**
• P2485666



- 1) **Rocker Shaft**
• PZZ90139
- 2) **Rocker Arm LH**
• P3737A101
- 3) **Rocker Arm RH**
• P3737A091
- 4) **Heater Plug**
• P2666108
(Bayonet Fitting)

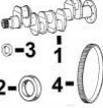
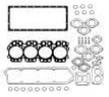
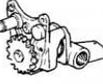
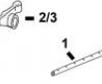


- Oil Pressure Switch**
• P2848062

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available. (2): Check for proper application. (3): Valve stem seal is not included.

Engine Series: 4.203	Engine Model: G4.203 (JF)	Engine Data: Lip Seal	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.6020 in / 91.491mm
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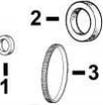
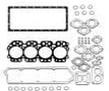
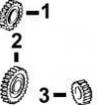
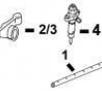
Eaton-Corp
Forklift - (JF22668)

 <p>1) Engine O/H Kit • POK442</p> <p>2) Basic Engine Kit • PBK442 • SPEC SHEET - G4.203 (JF)</p>	 <p>Piston-Liner Kit • PCK154</p> <p>Consist of:</p> <ul style="list-style-type: none"> • a) P86723 • b) P41158012 • c) P31358345 <p>4 Per Engine</p>	 <p>Main Bearing Set • P68082 <i>Std.</i> • P68082A <i>0.010</i> • P68082B <i>0.020</i> • P68082C <i>0.030</i></p> <p>1 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85035 <i>Std.</i> • P85035A <i>0.010</i> • P85035B <i>0.020</i> • P85035C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137211/21</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2415344</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit</p> <p>4) Ring Gear • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • PU5LT0084</p> <p>2) Bottom Gasket • PU5LB0015</p> <p>3) Head Gasket • P36812138</p>	 <p>1) Bush, Con Rod • P31134151 <i>x4</i></p> <p>2) Bolt, Con Rod • P0095250 <i>x8</i></p> <p>3) Nut, Con Rod • P33221327 <i>x8</i></p>	 <p>1) Bushing, Cam • P31134119 <i>x1</i></p> <p>2) Tappet • P0860012</p>	 <p>1) Idler Gear, Lower • P41115004</p> <p>2) Idler Gear, Upper • P41115005</p>
<p>Valve Train Kit • PVTK421</p>	<p>1) Valve, Intake • P31431741 <i>x4</i></p> <p>2) Valve, Exhaust • P31431731 <i>x4</i></p>	<p>3) Guide, Valve (Intake & Exhaust) • P3313E011 <i>x8</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P0780007 <i>x8</i> • 4b) P0780006 <i>x8</i></p>	<p>5) Lock, Valve • P0230001 <i>x16</i></p>
 <p>Oil Pump • P41314164</p>	 <p>Thermostat • P2485666</p>	 <p>1) Rocker Shaft • PZZ90139</p> <p>2) Rocker Arm LH • P3737A101</p> <p>3) Rocker Arm RH • P3737A091</p>	 <p>Oil Pressure Switch • P2848062</p>	

(1): Semi Finished Liner, P31358323, and Finished Liner in .010" P31358384, are also available. (2): Check for proper application.

Engine Series: 4.236	Engine Model: 4.212 (LA)	Engine Data: Rope & Lip Seal (Both types included in kit) To ESN UA187117L	Engine Info: 4 Cyl	Engine Dimensions: Bore: 3.8770 in / 98.476 mm
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Mf Industrial 50 - (LA21243)	50B	Landini-Tractors TL120C - (LA21912)	Mf Agricultural 165 - (LA)
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 <p>1) Engine O/H Kit • POK440</p> <p>2) Basic Engine Kit • PBK440 • SPEC SHEET - 4.212 (LA)</p>	 <p>Piston-Liner Kit • PU5MK0066</p> <p>Consist of: • a) P86721 • b) P41158044 • c) P31358394</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P81558 Std. • P81558A 0.010 • P81558B 0.020 • P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85042 Std. • P85042A 0.010 • P85042B 0.020 • P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 Std. • P31137312/22 0.007</p> <p>Set of 2 Pairs</p>	
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P36883108 x2 • P2418F475</p> <p>3) Ring Gear • P0410236 115T</p>	 <p>1) Top Gasket Set • PU5LT0015</p> <p>2) Bottom Gasket • PU5LB0045</p> <p>3) Head Gasket • P36812349</p> <p>4) Oil Pan Set • PU5MK0600</p>	 <p>1) Bush, Con Rod • P31134123 x4</p> <p>2) Bolt, Con Rod • P32762144 x8</p> <p>3) Nut, Con Rod • P33221328 x8</p> <p>4) Con Rod • PZZ90009</p>	 <p>1) Bushing, Cam • P31134132 x1</p> <p>2) Camshaft • P31415321 • P31415374</p> <p>3) Tappet • P31434163</p> <p>4) Pushrod • P31434307</p>	 <p>1) Crankshaft Gear • P31171681</p> <p>2) Camshaft Gear • P31171353</p> <p>3) Idler Gear • P41115023</p>	
<p>Valve Train Kit • PVTK406</p>	<p>1) Valve, Intake • P31431641 x4</p> <p>2) Valve, Exhaust • P31431881 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3343F002 x4 • 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P31744131 x8 • 4b) P31745121 x8</p>	<p>5) Lock, Valve • P33173108 x16</p> <p>6) Seal, Valve • P33817117 x8</p>	
 <p>Oil Pump • P41314182</p>	 <p>Lift Pump • P2641728</p>	 <p>1) Water Pump • P4131A013</p> <p>2) Thermostat • P2485659</p>	 <p>1) Rocker Shaft • PZZ90032</p> <p>2) Rocker Arm LH • P41151483</p> <p>3) Rocker Arm RH • P41151484</p> <p>4) Injector • P2645600 • P2646689</p>	 <p>1) Cylinder Head • PZZ80175</p> <p>2) Heater Plug • P2666103 (Screw Fitting) • P2666108 (Bayonet Fitting)</p>	 <p>1) Balancer Unit • P41733082</p>

(1): To ESN U106654N.

(3): Used on Build No: LA21194/LA21243.

(5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): From ESN U106655N.

(4): Used on Build No: LA21912.

(6): Check your Perkins Parts Catalog.

Engine Series:
4.236

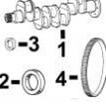
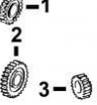
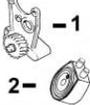
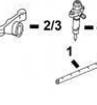
Engine Model:
4.236 (LD)

Engine Data:
Rope & Lip Seal
To ESN
U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in
/ 98.476 mm

Please see page 553 for a complete list of equipment models.

 <p>1) Engine O/H Kit ‣ POK446</p> <p>2) Basic Engine Kit ‣ PBK446 ‣ SPEC SHEET - 4.236 (LD)</p>	 <p>Piston-Liner Kit ‣ PU5MK0123</p> <p>Consist of: ‣ a) P68301 ‣ b) P41158041 ‣ c) P31358394</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 Std. ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>	
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P36883108 x2 ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90093 ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0015</p> <p>2) Bottom Gasket ‣ PU5LB0045</p> <p>3) Head Gasket ‣ P36812349</p> <p>4) Valve Cover Gsk ‣ P3681A027</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415321</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353</p> <p>3) Idler Gear ‣ P41115023</p>	
<p>Valve Train Kit ‣ PVTK406</p>		<p>1) Valve, Intake ‣ P31431641 x4</p> <p>2) Valve, Exhaust ‣ P31431881 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
 <p>1) Oil Pump ‣ P41314182</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>Lift Pump ‣ P2641338 ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485659 ‣ P2485666 (Use on JCB)</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector ‣ P2645664 ‣ P2646689</p>	 <p>1) Cylinder Head ‣ PZZ80175</p> <p>2) Heater Plug ‣ P2666103 (Screw Fitting) ‣ P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	 <p>1) Balancer Unit ‣ P41733082</p>

(1): For Non Agricultural Uses.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(5): Lip seal crank used From ESN 136319L.

(7): From Engine No: 236UA57135.

(9): Check build number for proper application.

(2): For Agricultural Uses.

(4): Rope seal crank used To ESN 136318L.

(6): To Engine No: 236UA57134.

(8): Check your Perkins Parts Catalog.

Engine Series:
4.236

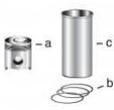
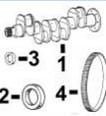
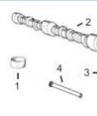
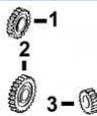
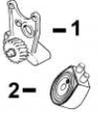
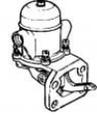
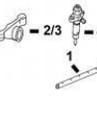
Engine Model:
4.236 (LD)

Engine Data:
Lip Seal
From ESN
U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770
in / 98.476
mm

Please see page 554 for a complete list of equipment models.

 <p>1) Engine O/H Kit ‣ POK449</p> <p>2) Basic Engine Kit ‣ PBK449 ‣ SPEC SHEET - 4.236 (LD)</p>	 <p>Piston-Liner Kit ‣ PCK301</p> <p>Consist of: ‣ a) P68301 ‣ b) P41158041 ‣ c) P3135X032 3</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A <i>0.010</i> ‣ P81558B <i>0.020</i> ‣ P81558C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A <i>0.010</i> ‣ P85042B <i>0.020</i> ‣ P85042C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>	
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 <i>115T</i> ‣ P0410264 <i>122T</i> ‣ P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set ‣ PU5LT0065</p> <p>2) Bottom Gasket ‣ PU5LB0045</p> <p>3) Head Gasket ‣ P3681E036</p> <p>4) Valve Cover Gsk ‣ P3681A027</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 <i>x4</i></p> <p>2) Bolt, Con Rod ‣ P32762144 <i>x8</i></p> <p>3) Nut, Con Rod ‣ P33221328 <i>x8</i></p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 <i>x1</i></p> <p>2) Camshaft ‣ P31415374</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 1</p> <p>3) Idler Gear ‣ P41115023</p>	
<p>Valve Train Kit ‣ PVTK406</p>	<p>1) Valve, Intake ‣ P31431641 <i>x4</i></p> <p>2) Valve, Exhaust ‣ P31431881 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 <i>x4</i> ‣ 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 <i>x8</i> ‣ 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve ‣ P33173108 <i>x16</i></p> <p>6) Seal, Valve ‣ P33817117 <i>x8</i></p>	
 <p>1) Oil Pump ‣ P41314182 1</p> <p>2) Oil Cooler ‣ P2486A218 5 ‣ P2486A219 5</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485659 ‣ P2485666 (Use on JCB)</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector ‣ P2645664 4</p>	 <p>1) Cylinder Head ‣ PZZ80175</p> <p>2) Heater Plug (Screw Fitting) ‣ P2666103 ‣ P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062 6</p>	 <p>1) Balancer Unit ‣ P41733082 2</p>

(1): For Non Agricultural Uses.

(3): Flanged, Semi Finished Liner available, P3135X031

(5): Check build number for proper application.

(2): For Agricultural Uses.

(4): Check your Perkins Parts Catalog.

Engine Series:
4.236

Engine Model:
4.236 (LD)

Engine Data:
Rope & Lip Seal
(Both types included in the kit)
To ESN U106654N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Please see page 555 for a complete list of equipment models.



- 1) **Engine O/H Kit**
‣ POK450
- 2) **Basic Engine Kit**
‣ PBK450
‣ SPEC SHEET - 4.236 (LD)



- Piston-Liner Kit**
‣ PU5MK0123
- Consist of:**
‣ a) P68301
‣ b) P41158041
‣ c) P31358394
- 4 Per Engine**



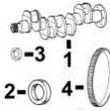
- Main Bearing Set**
‣ P81558 Std.
‣ P81558A 0.010
‣ P81558B 0.020
‣ P81558C 0.030
- Set of 5 Pairs**



- Con Rod Bearing Set**
‣ P85042 Std.
‣ P85042A 0.010
‣ P85042B 0.020
‣ P85042C 0.030
- Set of 4 Pairs**



- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



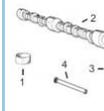
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
‣ P36883108 x2
- 3) **Crankshaft Kit**
‣ PZZ90093
‣ PZZ90082
- 4) **Ring Gear**
‣ P0410236 115T
‣ P0410264 122T
‣ P31162121 126T



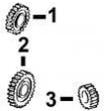
- 1) **Top Gasket Set**
‣ PU5LT0015
- 2) **Bottom Gasket**
‣ PU5LB0046
- 3) **Head Gasket**
‣ P36812349
- 4) **Valve Cover Gsk**
‣ P3681A027
- 5) **Timing Cover Gsk**
‣ P3681P045
- 6) **Oil Pan Gasket**
‣ PU5MK0600



- 1) **Bush, Con Rod**
‣ P31134123 x4
- 2) **Bolt, Con Rod**
‣ P32762144 x8
- 3) **Nut, Con Rod**
‣ P33221328 x8
- 4) **Con Rod**
‣ PZZ90009



- 1) **Bushing, Cam**
‣ P31134132 x1
- 2) **Camshaft**
‣ P31415292
‣ P31415321
- 3) **Tappet**
‣ P31434163
- 4) **Pushrod**
‣ P31434307



- 1) **Crankshaft Gear**
‣ P31171681
- 2) **Camshaft Gear**
‣ P31171353
- 3) **Idler Gear**
‣ P41115023

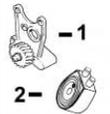
- Valve Train Kit**
‣ PVTK413

- 1) **Valve, Intake**
‣ P31431315 x4
- 2) **Valve, Exhaust**
‣ P3142A052 x4

- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x4
‣ 3b) P3343J002 x4

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x8
‣ 4b) P31745121 x8

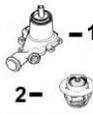
- 5) **Lock, Valve**
‣ P33173108 x16
- 6) **Seal, Valve**
‣ P33817117 x8



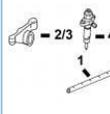
- 1) **Oil Pump**
‣ P41314182
- 2) **Oil Cooler**
‣ P2486A218
‣ P2486A219



- Lift Pump**
‣ P2641728



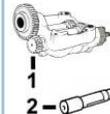
- 1) **Water Pump**
‣ P4131A013
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90032
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Injector**
‣ P2645664
‣ P2645666



- 1) **Cylinder Head**
‣ PZZ80175
- 2) **Heater Plug**
‣ P2666103
(Screw Fitting)
‣ P2666108
(Bayonet Fitting)
- 3) **Oil Pressure Switch**
‣ P2848062



- 1) **Balancer Unit**
‣ P41733082

(1): Check with Build List.

(3): Lip Seal Crank Used From ESN U136319L

(5): Used on Build No: LD22682

(7): Use P2485609 on Build LD21386

(9): Check build number for proper application.

(2): Rope Seal Crank Used To ESN U136318L

(4): Used on Build No: LD21386

(6): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(8): Check your Perkins Parts Catalog.

Engine Series:
4.236

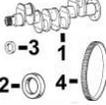
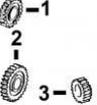
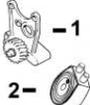
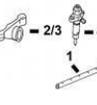
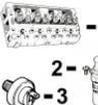
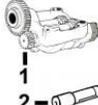
Engine Model:
4.236 (LD)

Engine Data:
Lip Seal
From ESN
U106655N

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770
in / 98.476
mm

Please see page 556 for a complete list of equipment models.

 <p>1) Engine O/H Kit ‣ POK448</p> <p>2) Basic Engine Kit ‣ PBK448 ‣ SPEC SHEET - 4.236 (LD)</p>	 <p>Piston-Liner Kit ‣ PCK301</p> <p>Consist of: ‣ a) P68301 ‣ b) P41158041 ‣ c) P3135X032 3</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A <i>0.010</i> ‣ P81558B <i>0.020</i> ‣ P81558C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A <i>0.010</i> ‣ P85042B <i>0.020</i> ‣ P85042C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>	
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 <i>115T</i> ‣ P0410264 <i>122T</i> ‣ P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set ‣ PU5LT0065</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Head Gasket ‣ P3681E036 1</p> <p>4) Valve Cover Gsk ‣ P3681A027</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 <i>x4</i></p> <p>2) Bolt, Con Rod ‣ P32762144 <i>x8</i></p> <p>3) Nut, Con Rod ‣ P33221328 <i>x8</i></p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 <i>x1</i></p> <p>2) Camshaft ‣ P31415381 ‣ P31415374 1</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931 2</p> <p>3) Idler Gear ‣ P41115023</p>	
<p>Valve Train Kit ‣ PVTK413</p>	<p>1) Valve, Intake ‣ P31431315 <i>x4</i></p> <p>2) Valve, Exhaust ‣ P3142A052 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 <i>x4</i> ‣ 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 <i>x8</i> ‣ 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve ‣ P33173108 <i>x16</i></p> <p>6) Seal, Valve ‣ P33817117 <i>x8</i></p>	
 <p>1) Oil Pump ‣ P41314182 6</p> <p>2) Oil Cooler ‣ P2486A218 5 ‣ P2486A219 5</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485666 2 ‣ P2485609</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector ‣ P2645664 4 ‣ P2645666 4</p>	 <p>1) Cylinder Head ‣ PZZ80175</p> <p>2) Heater Plug (Screw Fitting) ‣ P2666103 ‣ P2666108</p> <p>3) Oil Pressure Switch (Bayonet Fitting) ‣ P2848062 5</p>	 <p>1) Balancer Unit ‣ P41733082 2</p>

(1): Used on Build No: LD22682.

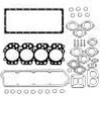
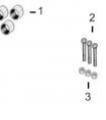
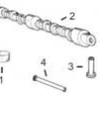
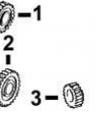
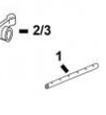
(3): Flanged, Semi Finished Liner P3135X031 and Parallel liner P31358324 are also available.

(5): Check build number for proper application.

(2): Used on Build No: LD21386. Front mount balancer application.

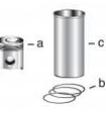
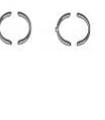
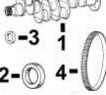
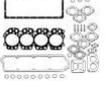
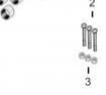
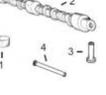
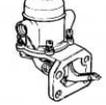
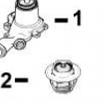
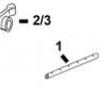
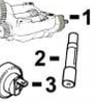
(4): Check your Perkins Parts Catalog.

(6): Non-balancer unit engines.

<p>Engine Series: 4.236</p> <p>Engine Model: G4.236 (LE)</p> <p>Engine Desc: GASOLINE ENGINE</p> <p>Engine Data: Lip Seal To ESN U106654N</p>	 <p>1) Engine O/H Kit ‣ POK457</p> <p>2) Basic Engine Kit ‣ PBK457 ‣ SPEC SHEET - G4.236 (LE)</p>	 <p>Piston-Liner Kit ‣ PCK394</p> <p>Consist of: ‣ a) PU5LP0047 ‣ b) P41158142 ‣ c) P31358394</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p> <p>Caterpillar RT - (LE70110) T500-1500 - (LE70148) V100-140 - (LE70089) V80D - (LE70094)</p> <p>Clark Equipment C500-Y60 - (LE80173) C500-Y60 - (LE22376) C500H 60-80 - (LE70157) C500 60-S100 CR - (LE70175) C500-100 - (LE70185) C500-135 - (LE70185)</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0176</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E036</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Set ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134144 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415292</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931</p> <p>3) Idler Gear ‣ P31171951</p>
<p>Jacobsen Mfg Co HR-15 - Turf Tractor (LE70054) F10 - Turf Tractor (LE70054)</p> <p>Eaton-Corp Forklift - (LE80177)</p>	<p>Valve Train Kit ‣ PVTK412</p>	<p>1) Valve, Intake ‣ P31431871 x4</p> <p>2) Valve, Exhaust ‣ P31431701 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
<p>Oil Pump ‣ P41314182</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Balancer Unit ‣ P41733082</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	

(1): Do not Use on Build No: LE70089 or LE22376 or LE80173
 (3): Order with Kit for Build No: LE70089 or LE70094
 (5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
 (7): Check for proper application.

(2): Use on Build No: LE22376 or LE80173
 (4): Use on Build Nos: LE70089 or LE80173 or LE22376
 (6): Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

<p>Engine Series: 4.236</p> <p>Engine Model: G4.236 (LE)</p> <p>Engine Desc: GASOLINE ENGINE</p> <p>Engine Data: Lip Seal From ESN U106655N</p>	 <p>1) Engine O/H Kit ‣ POK447</p> <p>2) Basic Engine Kit ‣ PBK447 ‣ SPEC SHEET - G4.236 (LE)</p>	 <p>Piston-Liner Kit ‣ PCK236G</p> <p>Consist of: ‣ a) PU5LP0047 ‣ b) P41158142 ‣ c) P3135X032</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 Std. ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p> <p>Caterpillar RT - (LE70110) T500-1500 - (LE70148) V100-140 - (LE70089) V80D - (LE70094)</p> <p>Clark Equipment C500-Y60 - (LE80173) C500-Y60 - (LE22376) C500H 60-80 - (LE70157)</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0176</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E036</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134144 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415381</p> <p>3) Tappet ‣ P31434163</p> <p>4) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931</p> <p>3) Idler Gear ‣ P31171951</p>
<p>Valve Train Kit ‣ PVTK412</p>	<p>1) Valve, Intake ‣ P31431871 x4</p> <p>2) Valve, Exhaust ‣ P31431701 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>	
<p>Eaton-Corp Forklift - (LE80177)</p> <p>Jacobsen-Mfg-Co HR-15 Turf Tractor H-10 Turf Tractor</p>	 <p>Oil Pump ‣ P41314182</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Balancer Unit ‣ P41733082</p> <p>3) Oil Pressure Switch ‣ P2848062</p>

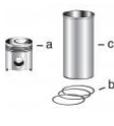
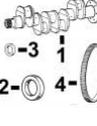
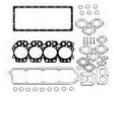
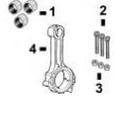
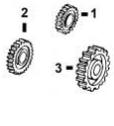
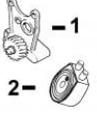
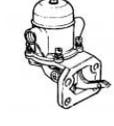
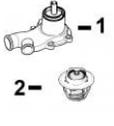
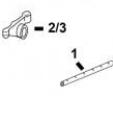
(1): Do not Use on Build No: LE70089,LE22376, and LE80173.
 (3): Order with Kit for Build No: LE70089,LE70094.
 (5): Use on Build Nos: LE70089/LE80173/LE22376.
 (7): Use P2485613 on Build LE70148 and P2485609 on Build LE80173.

(2): Use on Build No: LE22376,LE80173.
 (4): Flanged, Semi Finished Liner P3135X031 are also available.
 (6): Check with Build List.

Engine Series: 4.236	Engine Model: C4.236 (LH)	Engine Desc: COMPENSATED	Engine Data: Lip Seal From ESN U106655N	Engine Info: 4 Cyl
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Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

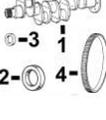
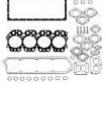
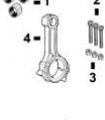
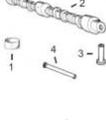
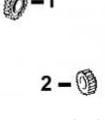
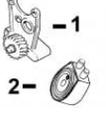
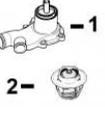
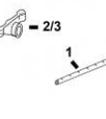
Jcb 3CX - Backhoe (LH50133) 200 - Loader (LH50226)	Caterpillar 200 - Loader (LH50205)	416 - Backhoe (LD70178) 426 - Backhoe (LD70179) 805 - Excavator (LD80249)	418 - Backhoe (LD70200) 428 - Backhoe (LD70201)
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 <p>1) Engine O/H Kit • POK455</p> <p>2) Basic Engine Kit • PBK455 • SPEC SHEET - C4.236 (LH)</p>	 <p>Piston-Liner Kit • PCK416</p> <p>Consist of: • a) PU5LP0011 • b) P41158147 • c) P3135X032 1</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P81558 Std. • P81558A 0.010 • P81558B 0.020 • P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85042 Std. • P85042A 0.010 • P85042B 0.020 • P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 Std. • P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit • PZZ90082</p> <p>4) Ring Gear • P0410236 115T</p>	 <p>1) Top Gasket Set • PU5LT0046</p> <p>2) Bottom Gasket • PU5LB0045</p> <p>3) Valve Cover Gsk • P3681A027</p> <p>4) Head Gasket • P3681E016</p> <p>5) Timing Cover Gsk • P3681P045</p> <p>6) Oil Pan Gasket • PU5MK0600</p>	 <p>1) Bush, Con Rod • P31134123 x4</p> <p>2) Bolt, Con Rod • P32762144 x8</p> <p>3) Nut, Con Rod • P33221328 x8</p> <p>4) Con Rod • PZZ90009</p>	 <p>1) Bushing, Cam • P31134132 x1</p> <p>2) Camshaft • P31415374</p> <p>3) Tappet • P31434163</p> <p>4) Pushrod • P31434307</p>	 <p>1) Crankshaft Gear • P31171681 1</p> <p>2) Camshaft Gear • P31171353 • P31171931 2</p> <p>3) Idler Gear • P41115023</p>
<p>Valve Train Kit • PVTK413</p>	<p>1) Valve, Intake • P31431315 x4</p> <p>2) Valve, Exhaust • P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3343F002 x4 • 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P31744131 x8 • 4b) P31745121 x8</p>	<p>5) Lock, Valve • P33173108 x16</p> <p>6) Seal, Valve • P33817117 x8</p>
 <p>1) Oil Pump • P41314182</p> <p>2) Oil Cooler • P2486A218 3 • P2486A219 3</p>	 <p>Lift Pump • P2641728</p>	 <p>1) Water Pump • PU5MW0108</p> <p>2) Thermostat • P2485613</p>	 <p>1) Rocker Shaft • PZZ90032</p> <p>2) Rocker Arm LH • P41151483</p> <p>3) Rocker Arm RH • P41151484</p>	 <p>1) Cylinder HD with Valves • PZZ80175</p> <p>2) Heater Plug • P2666108</p> <p>Bayonet Fitting</p> <p>3) Oil Pressure Switch • P2848062 3</p>

(1): Parallel, Semi Finished Liner P3135X031 is also available.

(2): Use on Build No: LH50133/LH50205.

(3): Check build number for proper application.

<p>Engine Series: 4.236</p> <p>Engine Model: T4.236 (LJ)</p> <p>Engine Desc: TURBOCHARGED</p> <p>Engine Data: Lip Seal</p> <p>Engine Info: 4 Cyl</p>	 <p>1) Engine O/H Kit ‣ POK451</p> <p>2) Basic Engine Kit ‣ PBK451 ‣ SPEC SHEET - T4.236 (LJ)</p>	 <p>Piston-Liner Kit ‣ PCK236T</p> <p>Consist of: ‣ a) PU5LP0022 ‣ b) P41158145 ‣ c) P3135X032</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 Std. ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p> <p>Asphalt Pavers AP800B</p> <p>Jcb 4CX - Backhoe (LJ50117) 410M - Forklift (LJ50201) 415 - Loader (LJ50224) 520S - Loadall (LJ50183)</p> <p>Mf Agricultural 698 - (LJ31131) 3065 - (LJ31217) 3370 - (LJ31153)</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0046</p> <p>2) Bottom Gasket ‣ PU5LB0045</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E016</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134131 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Tappet ‣ P31434163</p> <p>3) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931</p>
<p>Valve Train Kit ‣ PVTK414</p>	<p>1) Valve, Intake ‣ P3142H002 x4</p> <p>2) Valve, Exhaust ‣ P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>	
 <p>1) Oil Pump ‣ P4132F012 ‣ P4132F041</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>1) Lift Pump ‣ P2641728</p> <p>2) Turbocharger ‣ P2674A108</p>	 <p>1) Water Pump ‣ PU5MW0108</p> <p>2) Thermostat ‣ P2485613</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Balancer Unit ‣ P4111K051</p> <p>2) Heater Plug ‣ P2666108</p> <p>Bayonet Fitting</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	

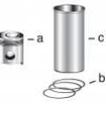
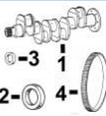
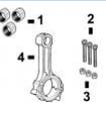
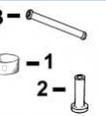
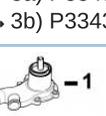
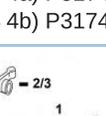
(1): For Use on Agricultural Applications.

(3): Use on Build No: LJ50201.

(5): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

(2): Parallel, Semi Finished Liner P3135X031 is also available.

(4): Check build number for proper application.

<p>Engine Series: 4.236</p> <p>Engine Model: T4.236 (LJ)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Lip Seal To ESN U106654N</p>	 <p>1) Engine O/H Kit ‣ POK458</p> <p>2) Basic Engine Kit ‣ PBK458 ‣ SPEC SHEET - T4.236 (LJ)</p>	 <p>Piston-Liner Kit ‣ PCK022</p> <p>Consist of: ‣ a) PU5LP0022 ‣ b) P41158145 ‣ c) P31358394</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0176</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P36812349</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134131 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Tappet ‣ P31434163</p> <p>3) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931</p>
<p>Asphalt Pavers AP800B</p> <p>Perkins General Industrial - (LJ70128) Genset - (LJ70130) Genset - (LJ70151)</p> <p>Sullair-Corp Genset - (LJ70155)</p>	<p>Valve Train Kit ‣ PVTK414</p>	<p>1) Valve, Intake ‣ P3142H002 x4</p> <p>2) Valve, Exhaust ‣ P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
 <p>1) Oil Pump ‣ P4132F012 ‣ P4132F041</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ PU5MW0108 ‣ PU5MW0106</p> <p>2) Thermostat ‣ P2485613</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Balancer Unit ‣ P4111K051</p> <p>2) Heater Plug ‣ P2666108</p> <p>Bayonet Fitting</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	

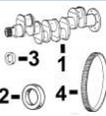
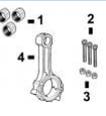
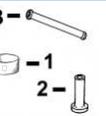
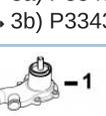
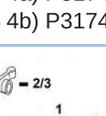
(1): Use on Build No: LJ70128.

(2): Use on Build No: LJ70155.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Check build number for proper application.

(5): On applications using Con Rod 4115C321, order bushing P3112A006 order separately.

<p>Engine Series: 4.236</p> <p>Engine Model: T4.236 (LJ)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Lip Seal From ESN U106655N</p>	 <p>1) Engine O/H Kit ‣ POK456</p> <p>2) Basic Engine Kit ‣ PBK456 ‣ SPEC SHEET - T4.236 (LJ)</p>	 <p>Piston-Liner Kit ‣ PCK236T</p> <p>Consist of: ‣ a) PU5LP0022 ‣ b) P41158145 ‣ c) P3135X032</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0046</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E016</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134131 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Tappet ‣ P31434163</p> <p>3) Pushrod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353 ‣ P31171931</p>
<p>Asphalt Pavers AP800B</p> <p>Perkins General Industrial - (LJ70128) Genset - (LJ70130) Genset - (LJ70151)</p> <p>Sullair-Corp Genset - (LJ70155)</p>	<p>Valve Train Kit ‣ PVTK414</p>	<p>1) Valve, Intake ‣ P3142H002 x4</p> <p>2) Valve, Exhaust ‣ P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
 <p>1) Oil Pump ‣ P4132F012 ‣ P4132F041</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>1) Lift Pump ‣ P2641728</p> <p>2) Turbocharger ‣ P2674A108</p>	 <p>1) Water Pump ‣ PU5MW0108 ‣ PU5MW0106</p> <p>2) Thermostat ‣ P2485613</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>1) Balancer Unit ‣ P4111K051</p> <p>2) Heater Plug ‣ P2666108</p> <p>Bayonet Fitting</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	

(1): Use on Build No: LJ70128.

(2): Use on Build No: LJ70155.

(3): Flanged, Semi Finished Liner, P3135X031 is also available.

(4): Check build number for proper application.

(5): On applications using Con Rod 4115C321, order bushing P3112A006, order separately.

Engine Series:
4.236

Engine Model:
T4.236 (LJ)

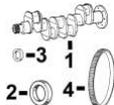
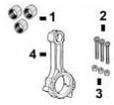
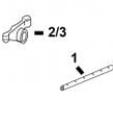
Engine Desc:
TURBOCHARGED

Engine Data:
Lip Seal
To ESN U390301U

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Asphalt Pavers
AP800B

 <p>1) Engine O/H Kit • POK453</p> <p>2) Basic Engine Kit • PBK453 • SPEC SHEET - T4.236 (LJ)</p>	 <p>Piston-Liner Kit • PCK236T</p> <p>Consist of:</p> <p>a) PU5LP0022 b) P41158145 c) P3135X032</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P81558 <i>Std.</i> • P81558A <i>0.010</i> • P81558B <i>0.020</i> • P81558C <i>0.030</i></p> <p>1 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85042 <i>Std.</i> • P85042A <i>0.010</i> • P85042B <i>0.020</i> • P85042C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 <i>Std.</i> • P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit • PZZ90082</p> <p>4) Ring Gear • P0410236 <i>115T</i> • P0410264 <i>122T</i> • P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set • PU5LT0176</p> <p>2) Bottom Gasket • PU5LB0045</p> <p>3) Valve Cover Gsk • P3681A027</p> <p>4) Head Gasket • P3681E036</p> <p>5) Timing Cover Gsk • P3681P045</p> <p>6) Oil Pan Gasket • PU5MK0600</p>	 <p>1) Bush, Con Rod • P31134131 <i>x4</i></p> <p>2) Bolt, Con Rod • P32762144 <i>x8</i></p> <p>3) Nut, Con Rod • P33221328 <i>x8</i></p> <p>4) Con Rod • PZZ90013</p>	 <p>1) Bushing, Cam • P31134132 <i>x1</i></p> <p>2) Tappet • P31434163</p> <p>3) Pushrod • P31434307</p>	 <p>1) Crankshaft Gear • P31171681</p> <p>2) Camshaft Gear • P31171353</p> <p>3) Idler Gear • P41115023</p>
<p>Valve Train Kit • PVTK413</p>	<p>1) Valve, Intake • P31431315 <i>x4</i></p> <p>2) Valve, Exhaust • P3142A052 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3343F002 <i>x4</i> • 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P31744131 <i>x8</i> • 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve • P33173108 <i>x16</i></p> <p>6) Seal, Valve • P33817117 <i>x8</i></p>
 <p>Oil Pump • P41314182</p>	 <p>Lift Pump • P2641728</p>	 <p>1) Water Pump • PU5MW0108</p> <p>2) Thermostat • P2485613</p>	 <p>1) Rocker Shaft • PZZ90032</p> <p>2) Rocker Arm LH • P41151483</p> <p>3) Rocker Arm RH • P41151484</p>	 <p>Oil Pressure Switch • P2848062</p>

(1): Flanged, Semi Finished Liner, P3135X031 is also available.

(2): Check for proper application.

Engine Series:
4.236

Engine Model:
T4.236 (LJ)

Engine Desc:
TURBOCHARGED

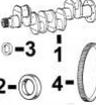
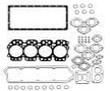
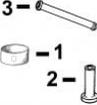
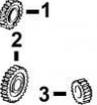
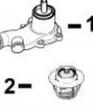
Engine Data:
Lip Seal
From ESN U390302U

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

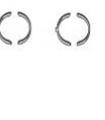
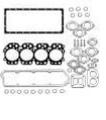
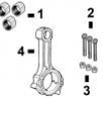
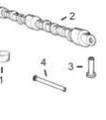
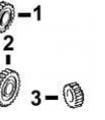
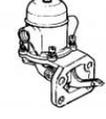
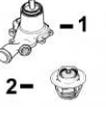
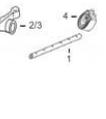
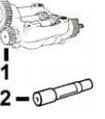
Build List
LH70202

Asphalt Pavers
AP800B

 <p>1) Engine O/H Kit • POK454</p> <p>2) Basic Engine Kit • PBK454 • SPEC SHEET - T4.236 (LJ)</p>	 <p>Piston-Liner Kit • PCK236T</p> <p>Consist of:</p> <p>a) PU5LP0022 b) P41158145 c) P3135X032</p> <p>4 Per Engine</p>	 <p>Main Bearing Set • P81558 Std. • P81558A 0.010 • P81558B 0.020 • P81558C 0.030</p> <p>1 Set of 5 Pairs</p>	 <p>Con Rod Bearing Set • P85042 Std. • P85042A 0.010 • P85042B 0.020 • P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set • P31137551/61 Std. • P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal • P2418F436</p> <p>2) Rear Seal • P2418F475</p> <p>3) Crankshaft Kit • PZZ90082</p> <p>4) Ring Gear • P0410236 115T • P0410264 122T • P31162121 126T</p>	 <p>1) Top Gasket Set • PU5LT0046</p> <p>2) Bottom Gasket • PU5LB0045</p> <p>3) Valve Cover Gsk • P3681A027</p> <p>4) Head Gasket • P3681E016</p> <p>5) Timing Cover Gsk • P3681P045</p> <p>6) Oil Pan Gasket • PU5MK0600</p>	 <p>1) Bush, Con Rod • P31134131 x4</p> <p>2) Bolt, Con Rod • P32762144 x8</p> <p>3) Nut, Con Rod • P33221328 x8</p> <p>4) Con Rod • PZZ90013</p>	 <p>1) Bushing, Cam • P31134132 x1</p> <p>2) Tappet • P31434163</p> <p>3) Pushrod • P31434307</p>	 <p>1) Crankshaft Gear • P31171681</p> <p>2) Camshaft Gear • P31171353</p> <p>3) Idler Gear • P41115023</p>
<p>Valve Train Kit • PVTK413</p>	<p>1) Valve, Intake • P31431315 x4</p> <p>2) Valve, Exhaust • P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust • 3a) P3343F002 x4 • 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer • 4a) P31744131 x8 • 4b) P31745121 x8</p>	<p>5) Lock, Valve • P33173108 x16</p> <p>6) Seal, Valve • P33817117 x8</p>
 <p>Oil Pump • P41314182</p>	 <p>1) Lift Pump • P2641728</p> <p>2) Turbocharger • P2674A108</p>	 <p>1) Water Pump • PU5MW0108</p> <p>2) Thermostat • P2485613</p>	 <p>1) Rocker Shaft • PZZ90032</p> <p>2) Rocker Arm LH • P41151483</p> <p>3) Rocker Arm RH • P41151484</p>	 <p>Oil Pressure Switch • P2848062</p>

(1): Flanged, Semi Finished Liner, P3135X031 is also available.

(2): Check for proper application.

<p>Engine Series: 4.236</p> <p>Engine Model: 4.248 (LF)</p> <p>Engine Desc: To ESN UA123423L</p> <p>Engine Data: Lip & Rope Seal (Both rear seal types in kit)</p> <p>Engine Info: 4 Cyl</p> <p>Engine Dimensions: Bore: 3.9785 in / 101.054 mm</p>	 <p>1) Engine O/H Kit ‣ POK460</p> <p>2) Basic Engine Kit ‣ PBK460 ‣ SPEC SHEET - 4.248 (LF)</p>	 <p>Piston-Liner Kit ‣ PU5MK0067</p> <p>Consist of: ‣ a) P89207 ‣ b) P4181A009 ‣ c) P31358352</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 <i>Std.</i> ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 <i>Std.</i> ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
<p>Mf Agricultural MF275 - Tractor MF283 - Tractor MF285 - Tractor MF290 - Tractor</p>	 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P36883108 <i>x2</i> ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90093 ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 <i>115T</i> ‣ P0410264 <i>122T</i> ‣ P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set ‣ PU5LT0015</p> <p>2) Bottom Gasket ‣ PU5LB0045</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P36812349</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 <i>x4</i></p> <p>2) Bolt, Con Rod ‣ P32762144 <i>x8</i></p> <p>3) Nut, Con Rod ‣ P33221328 <i>x8</i></p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 <i>x1</i></p> <p>2) Camshaft ‣ P31415321</p> <p>3) Tappet ‣ P31434163</p> <p>4) Push Rod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353</p> <p>3) Idler Gear ‣ P41115023</p>
<p>Valve Train Kit ‣ PVTK406</p>	<p>1) Valve, Intake ‣ P31431641 <i>x4</i></p> <p>2) Valve, Exhaust ‣ P31431881 <i>x4</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 <i>x4</i> ‣ 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 <i>x8</i> ‣ 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve ‣ P33173108 <i>x16</i></p> <p>6) Seal, Valve ‣ P33817117 <i>x8</i></p>	
 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485659</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80175</p> <p>2) Heater Plug ‣ P2666103 (Screw Fitting) ‣ P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p>	 <p>1) Balancer Unit ‣ P41733082</p>	

(1): Parallel, Finished Liner P31358343 (4.065" OD), and Flanged, (2): Rope Seal. Semi Finished Liner, P31358346, are also available.

(3): Lip Seal.

(4): Check build number for proper application.

Engine Series:
4.236

Engine Model:
4.248 (LF)

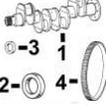
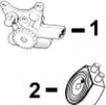
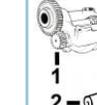
Engine Desc:
From ESN
UA123424L

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in
/ 101.054 mm

Please see page 557 for a complete list of equipment models.

 <p>1) Engine O/H Kit ‣ POK461</p> <p>2) Basic Engine Kit ‣ PBK461</p> <p>‣ SPEC SHEET - 4.248 (LF)</p>	 <p>Piston-Liner Kit ‣ PCK2481</p> <p>Consist of:</p> <p>‣ a) PU5LP0009</p> <p>‣ b) P41158022</p> <p>‣ c) P3135X034 5</p> <p>4 Per Engine</p>	 <p>Main Bearing Set</p> <p>‣ P81558 <i>Std.</i></p> <p>‣ P81558A <i>0.010</i></p> <p>‣ P81558B <i>0.020</i></p> <p>‣ P81558C <i>0.030</i></p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set</p> <p>‣ P85042 <i>Std.</i></p> <p>‣ P85042A <i>0.010</i></p> <p>‣ P85042B <i>0.020</i></p> <p>‣ P85042C <i>0.030</i></p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set</p> <p>‣ P31137551/61 <i>Std.</i></p> <p>‣ P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90082</p> <p>4) Ring Gear</p> <p>‣ P0410236 <i>115T</i></p> <p>‣ P0410264 <i>122T</i></p> <p>‣ P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set ‣ PU5LT0065</p> <p>2) Bottom Gasket ‣ PU5LB0045</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E036</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 <i>x4</i></p> <p>2) Bolt, Con Rod ‣ P32762144 <i>x8</i></p> <p>3) Nut, Con Rod ‣ P33221328 <i>x8</i></p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 <i>x1</i></p> <p>2) Camshaft ‣ P31415321 1</p> <p>‣ P31415374 2</p> <p>3) Tappet ‣ P31434163</p> <p>4) Push Rod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353</p> <p>3) Idler Gear ‣ P41115023</p>
<p>Valve Train Kit ‣ PVTK406</p>	<p>1) Valve, Intake ‣ P31431641 <i>x4</i></p> <p>2) Valve, Exhaust ‣ P31431881 <i>x4</i></p>	<p>3) Guide, Valve</p> <p>a) Intake b) Exhaust</p> <p>‣ 3a) P3343F002 <i>x4</i></p> <p>‣ 3b) P3343J002 <i>x4</i></p>	<p>4) Spring, Valve</p> <p>a) Inner b) Outer</p> <p>‣ 4a) P31744131 <i>x8</i></p> <p>‣ 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve ‣ P33173108 <i>x16</i></p> <p>6) Seal, Valve ‣ P33817117 <i>x8</i></p>
 <p>1) Oil Pump ‣ P4132F041 6</p> <p>2) Oil Cooler</p> <p>‣ P2486A218 8</p> <p>‣ P2486A219 8</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump</p> <p>‣ P4131A013 8</p> <p>‣ PU5MW0108 8</p> <p>2) Thermostat</p> <p>‣ P2485659 8</p> <p>‣ P2485613 8</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector</p> <p>‣ P2645601 7</p> <p>‣ P2645664 7</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80175</p> <p>2) Heater Plug ‣ P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062 8</p>

(1): To ESN U108196N.

(3): To ESN U076241N.

(5): Flanged, Semi Finished Liner, P3135X033, is also available.

(7): Check your Perkins Parts Catalog.

(2): From ESN U108197N.

(4): From ESN U076242N

(6): Used with Balancer Unit P4111K051.

(8): Check build number for proper application.

PERKINS 4.248 ROPE & LIP SEAL

Engine Series:
4.236

Engine Model:
4.248 (LF)

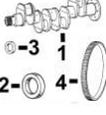
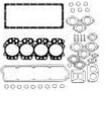
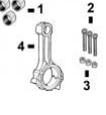
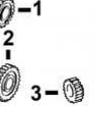
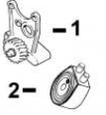
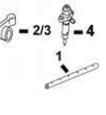
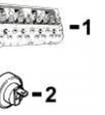
Engine Data:
Rope & Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Allis Chalmers

840 - Loader (LF21617)
D175 - Tractor (LF21274)

 <p>1) Engine O/H Kit ‣ POK463</p> <p>2) Basic Engine Kit ‣ PBK463 ‣ SPEC SHEET - 4.248 (LF)</p>	 <p>Piston-Liner Kit ‣ PCK2481</p> <p>Consist of: ‣ a) PU5LP0009 ‣ b) P41158022 ‣ c) P3135X034</p> <p>4 Per Engine</p>	 <p>Main Bearing Set ‣ P81558 Std. ‣ P81558A 0.010 ‣ P81558B 0.020 ‣ P81558C 0.030</p> <p>Set of 5 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85042 Std. ‣ P85042A 0.010 ‣ P85042B 0.020 ‣ P85042C 0.030</p> <p>Set of 4 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475 ‣ P36883108 x2</p> <p>3) Crankshaft Kit ‣ PZZ90093 ‣ PZZ90082</p> <p>4) Ring Gear ‣ P0410236 115T ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0065</p> <p>2) Bottom Gasket ‣ PU5LB0046</p> <p>3) Valve Cover Gsk ‣ P3681A027</p> <p>4) Head Gasket ‣ P3681E036</p> <p>5) Timing Cover Gsk ‣ P3681P045</p> <p>6) Oil Pan Gasket ‣ PU5MK0600</p>	 <p>1) Bush, Con Rod ‣ P31134123 x4</p> <p>2) Bolt, Con Rod ‣ P32762144 x8</p> <p>3) Nut, Con Rod ‣ P33221328 x8</p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Bushing, Cam ‣ P31134132 x1</p> <p>2) Camshaft ‣ P31415321 3 1 ‣ P31415371 3 2</p> <p>3) Tappet ‣ P31434163</p> <p>4) Push Rod ‣ P31434307</p>	 <p>1) Crankshaft Gear ‣ P31171681</p> <p>2) Camshaft Gear ‣ P31171353</p> <p>3) Idler Gear ‣ P41115023</p>
<p>Valve Train Kit ‣ PVTK413</p>	<p>1) Valve, Intake ‣ P31431315 x4</p> <p>2) Valve, Exhaust ‣ P3142A052 x4</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x4 ‣ 3b) P3343J002 x4</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x8 ‣ 4b) P31745121 x8</p>	<p>5) Lock, Valve ‣ P33173108 x16</p> <p>6) Seal, Valve ‣ P33817117 x8</p>
 <p>1) Oil Pump ‣ P41314182</p> <p>2) Oil Cooler ‣ P2486A218 ‣ P2486A219</p>	 <p>Lift Pump ‣ P2641728</p>	 <p>1) Water Pump ‣ P4131A013</p> <p>2) Thermostat ‣ P2485666</p>	 <p>1) Rocker Shaft ‣ PZZ90032</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector ‣ P2645601 7 ‣ P2645664 7</p>	 <p>1) Cylinder HD with Valves ‣ PZZ80175</p> <p>2) Oil Pressure Switch ‣ P2848062 3</p>

(1): To ESN U108196N.

(3): Check with Build List.

(5): From ESN U17857L.

(7): Check your Perkins Parts Catalog.

(2): From ESN U108197N.

(4): To ESN U17856L.

(6): Flanged, Semi Finished Liner, P3135X033, is also available.

PERKINS 4.248.2 LIP SEAL

Engine Series:
4.236

Engine Model:
4.248.2 (LG)

Engine Data:
Lip Seal

Engine Info:
4 Cyl

Engine Dimensions:
Bore: 3.9785 in / 101.054 mm

Caterpillar

B80D - (LG70067)
B80D - (LG70090)
T80D - (LG70149)
T50-150D - (LG70109)
V60C - (LG70069)
V60C - (LG70091)

Clark Equipment

CTD20-50 - (LG70097)
CTD20-50 - (LG70106)
C500 (H) 60-80 - (LG70159)
C500Y-C60-100 - (LG70188)
C500Y C60-S100 - (LG70103)
C500Y-100-150 - (LG70104)
C500Y 110-155 - (LG70107)

Hyster

H60-80E - (LG70063)
H60-110E - (LG70127)
H60-110XL - (LG70184)



- 1) **Engine O/H Kit**
‣ POK462
- 2) **Basic Engine Kit**
‣ PBK462
‣ SPEC SHEET - 4.248.2 (LG)



- 1) **Piston-Liner Kit**
‣ PCK2482
 - Consist of:**
 - a) P68814
 - b) P41158022
 - c) P3135X034
- 4 Per Engine**



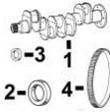
- 1) **Main Bearing Set**
‣ P81558 *Std.*
‣ P81558A 0.010
‣ P81558B 0.020
‣ P81558C 0.030
- Set of 5 Pairs**



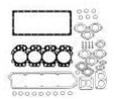
- 1) **Con Rod Bearing Set**
‣ P85042 *Std.*
‣ P85042A 0.010
‣ P85042B 0.020
‣ P85042C 0.030
- Set of 4 Pairs**



- 1) **Thrust Washer Set**
‣ P31137551/61 *Std.*
‣ P31137312/22 0.007
- Set of 2 Pairs**



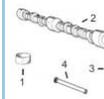
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90082
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0176
- 2) **Bottom Gasket**
‣ PU5LB0046
- 3) **Valve Cover Gsk**
‣ P3681A027
- 4) **Head Gasket**
‣ P3681E036
- 5) **Timing Cover Gsk**
‣ P3681P045
- 6) **Oil Pan Gasket**
‣ PU5MK0600



- 1) **Bush, Con Rod**
‣ P31134123 x4
- 2) **Bolt, Con Rod**
‣ P32762144 x8
- 3) **Nut, Con Rod**
‣ P33221328 x8
- 4) **Con Rod**
‣ PZZ90009



- 1) **Bushing, Cam**
‣ P31134132 x1
- 2) **Camshaft**
‣ P31415292
‣ P31415381
- 3) **Tappet**
‣ P31434163
- 4) **Push Rod**
‣ P31434307



- 1) **Crankshaft Gear**
‣ P31171681
- 2) **Camshaft Gear**
‣ P31171353
‣ P31171931
- 3) **Idler Gear**
‣ P31171951

- 1) **Valve Train Kit**
‣ PVTK413

- 1) **Valve, Intake**
‣ P31431315 x4
- 2) **Valve, Exhaust**
‣ P3142A052 x4

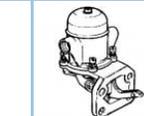
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x4
‣ 3b) P3343J002 x4

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x8
‣ 4b) P31745121 x8

- 5) **Lock, Valve**
‣ P33173108 x16
- 6) **Seal, Valve**
‣ P33817117 x8



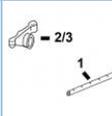
- 1) **Oil Pump**
‣ P41314182
‣ P4132F041



- 1) **Lift Pump**
‣ P2641728



- 1) **Water Pump**
‣ P4131A013
- 2) **Thermostat**
‣ P2485666



- 1) **Rocker Shaft**
‣ PZZ90032
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484



- 1) **Cylinder Head**
‣ PZZ80175
- 2) **Heater Plug**
‣ P2666103
(Screw Fitting)
‣ P2666108
(Bayonet Fitting)
- 3) **Oil Pressure Switch**
‣ P2848062



- 1) **Balancer Unit**
‣ P41733082
‣ P4111K051

- (1): Check with Build List.
- (3): From ESN U108197N.
- (5): Use on Build No: LG70159.
- (7): Flanged, Semi Finished Liner, P3135X033, is also available.

- (2): To ESN U108196N.
- (4): Use on Build No: LG70104.
- (6): Use on Build Nos: LG70067/LG70090.
- (8): Build LG70149 use P2485613, and Build LG70159, LG70104 use P2485609.

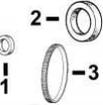
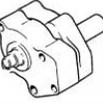
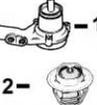
PERKINS 4.318 ROPE & LIP SEAL

Engine Series: 4.318	Engine Model: 4.318 (NC)	Engine Data: Rope & Lip Seal (Both Rear Seal Types included in Kit)	Engine Info: 4 Cyl	Engine Dimensions: Bore: 4.5005 in / 114.313 mm
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Mf Agricultural

285 - (NC22089)
1085 - (NC21725)

540 - Combine (NC22699)
1080 - Tractor

 <p>1) Engine O/H Kit , POK490 2) Basic Engine Kit , PBK490 , SPEC SHEET - 4.318 (NC)</p>	 <p>Piston-Liner Kit , PCK318 Consist of: , a) P86716 , b) P41158118 , c) P31358534 4 Per Engine</p>	 <p>Main Bearing Set , P68085 <i>Std.</i> , P68085A <i>0.010</i> , P68085B <i>0.020</i> , P68085C <i>0.030</i> Set of 5 Pairs</p>	 <p>Con Rod Bearing Set , P85041 <i>Std.</i> , P85041A <i>0.010</i> , P85041B <i>0.020</i> , P85041C <i>0.030</i> Set of 4 Pairs</p>	 <p>Thrust Washer Set , P31137551/61 <i>Std.</i> , P31137312/22 <i>0.007</i> Set of 2 Pairs</p>
 <p>1) Front Seal , P2415346 2) Rear Seal , P2418F475 , P36883108 <i>x2</i> 3) Ring Gear , P0410264 <i>122T</i></p>	 <p>1) Top Gasket Set , P69048 2) Bottom Gasket , P68211 3) Head Gasket , P36812348</p>	 <p>Bush, Con Rod , P0050128 <i>x4</i></p>		
<p>Valve Train Kit , PVTK408</p>	<p>1) Valve, Intake , P31431154 <i>x4</i> 2) Valve, Exhaust , P31431671 <i>x4</i></p>	<p>3) Guide, Valve (Intake & Exhaust) , 3) P33432532 <i>x8</i></p>	<p>4) Spring, Valve a) Inner b) Outer , 4a) P31744131 <i>x8</i> , 4b) P31745121 <i>x8</i></p>	<p>5) Lock, Valve , P33173108 <i>x16</i></p>
 <p>Oil Pump , P41314113</p>	 <p>Lift Pump , P2641336</p>	 <p>1) Water Pump , PU5MW0009 , PU5MW0014 2) Thermostat , P2485666</p>		

(1): Used on Build No: NC22089/NC22699.

(2): Used on Build No: NC21725.

PERKINS 6.354 ROPE & LIP SEAL

Engine Series:
6.354

Engine Model:
6.354 (TC)

Engine Data:
Rope & Lip Seal
(Both Rear Seal Types Include in Kit)

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

MF Industrial
45B - Shovel (TC22460)

MF Agricultural
1100

Clark-Equipment
C500-CY-160-300 - (TC22266)

Hyster
H150-250 - (TC20102)



- 1) **Engine O/H Kit**
‣ POK650
- 2) **Basic Engine Kit**
‣ PBK650
‣ SPEC SHEET - 6.354 (TC)



- Piston-Liner Kit**
‣ PU5MK0127
- Consist of:**
‣ a) P86740
‣ b) P41158041
‣ c) P31358394



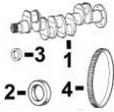
- Main Bearing Set**
‣ P85010 Std.
‣ P85010A 0.010
‣ P85010B 0.020
‣ P85010C 0.030



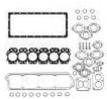
- Con Rod Bearing Set**
‣ P85043 Std.
‣ P85043A 0.010
‣ P85043B 0.020
‣ P85043C 0.030



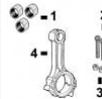
- Thrust Washer Set**
‣ PW2105L
‣ P31137551/61 Std.
‣ P31137312/22 0.007



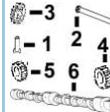
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
‣ P36883108 x2
- 3) **Crankshaft Kit**
‣ PZZ90090
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0021
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P36812548



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Tappet**
‣ P31434163
- 2) **Push Rod**
‣ P31434307
- 3) **Camshaft Gear**
‣ P31171353
- 4) **Crankshaft Gear**
‣ P31171682
- 5) **Idler Gear**
‣ P41115007
- 6) **Camshaft**
‣ P3141F141



- 1) **Aux. Drive Shaft**
‣ P31173422
- 2) **Gear & Shaft**
‣ P41115367
- 3) **Gear**
‣ P31171731
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Idler Gear Bush**
‣ P31134121

- Valve Train Kit**
‣ PVTK610

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A052 x6
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121 x12

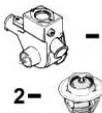
- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



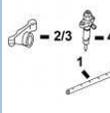
- Oil Pump**
‣ P41314067
‣ P41314131



- Lift Pump**
‣ P2641A064



- 1) **Water Pump**
‣ PU5MW0112
- 2) **Thermostat**
‣ P2485609



- 1) **Rocker Shaft**
‣ P41151483
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Injector**
‣ P2645595



- 1) **Heater Plug**
‣ P2666103
(Screw Fitting)
‣ P2666108
(Bayonet Fitting)
- 2) **Oil Pressure Switch**
‣ P2848062

(1): For ESN's Prior to 8504189 use Thrust Washer Set PW2105L (2): From ESN U327089L.
 (3): Check with Build List. (4): To ESN 354UA10361.
 (5): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
 (6): Used on Build TC21192 only.
 (7): Check build list for proper application use

Engine Series:
6.354

Engine Model:
6.354 (TC)

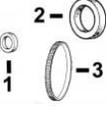
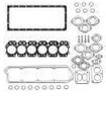
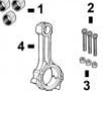
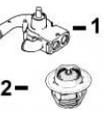
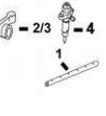
Engine Data:
Rope Seal

Engine Info:
6 Cyl

Engine Dimensions:

Bore: 3.8770 in / 98.476 mm

MF Agricultural
1100

 <p>1) Engine O/H Kit ‣ POK652</p> <p>2) Basic Engine Kit ‣ PBK652 ‣ SPEC SHEET - 6.354 (TC)</p>	 <p>Piston-Liner Kit ‣ PU5MK0127</p> <p>Consist of: ‣ a) P86740 ‣ b) P41158041 ‣ c) P31358394</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ P85010 <i>Std.</i> ‣ P85010A <i>0.010</i> ‣ P85010B <i>0.020</i> ‣ P85010C <i>0.030</i></p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85043 <i>Std.</i> ‣ P85043A <i>0.010</i> ‣ P85043B <i>0.020</i> ‣ P85043C <i>0.030</i></p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 <i>Std.</i> ‣ P31137312/22 <i>0.007</i></p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P36883108 <i>x2</i></p> <p>3) Ring Gear ‣ P0410264 <i>122T</i> ‣ P31162121 <i>126T</i></p>	 <p>1) Top Gasket Set ‣ PU5LT0026</p> <p>2) Bottom Gasket ‣ PU5LB0056</p> <p>3) Head Gasket ‣ P36812547</p> <p>4) Valve Cover Gasket ‣ P36811429</p> <p>5) Rocker Box Gasket ‣ P36811451</p>	 <p>1) Bush, Con Rod ‣ P31134123 <i>x6</i></p> <p>2) Bolt, Con Rod ‣ P32762144 <i>x12</i></p> <p>3) Nut, Con Rod ‣ P33221328 <i>x12</i></p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Tappet ‣ P31434163</p> <p>2) Push Rod ‣ P31434307</p> <p>3) Camshaft Gear ‣ P31171353</p> <p>4) Idler Gear ‣ P41115007</p> <p>5) Camshaft ‣ P3141F141</p>	 <p>1) Aux. Drive Shaft ‣ P31173422</p> <p>2) Gear & Shaft ‣ P41115367</p> <p>3) Gear ‣ P31171731</p> <p>4) Front Bush ‣ P31134129</p> <p>5) Rear Bush ‣ P2511447</p> <p>6) Seal ‣ P2418F432</p> <p>7) Idler Gear Bush ‣ P31134121</p>
<p>Valve Train Kit ‣ PVTK610</p>	<p>1) Valve, Intake ‣ P31431315 <i>x6</i></p> <p>2) Valve, Exhaust ‣ P3142A052 <i>x6</i></p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 <i>x6</i> ‣ 3b) P3343J002 <i>x6</i></p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 <i>x12</i> ‣ 4b) P31745121 <i>x12</i></p>	<p>5) Lock, Valve ‣ P33173108 <i>x24</i></p> <p>6) Seal, Valve ‣ P33817117 <i>x12</i></p>
 <p>Oil Pump ‣ P41314067</p>	 <p>Lift Pump ‣ P2641A064</p>	 <p>1) Water Pump ‣ PU5MW0016</p> <p>2) Thermostat ‣ P2485666 ‣ P2485613</p>	 <p>1) Rocker Shaft ‣</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Injector ‣ P2645595</p>	 <p>1) Heater Plug ‣ P2666103 (Screw Fitting) ‣ P2666108 (Bayonet Fitting)</p> <p>2) Oil Pressure Switch ‣ P2848062</p>

(1): From ESN 354UA10362.

(3): Used on Build TC21192 only.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Check build list for proper application use

PERKINS T6.354 ROPE

Engine Series:
6.354

Engine Model:
T6.354 (TE)

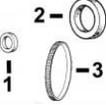
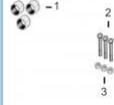
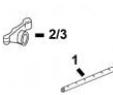
Engine Desc:
TURBOCHARGE

Engine Data:
Rope Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

MF Agricultural
1130

 <p>1) Engine O/H Kit ‣ POK660</p> <p>2) Basic Engine Kit ‣ PBK660 ‣ SPEC SHEET - T6.354 (TE)</p>	 <p>Piston-Liner Kit ‣ PCK354</p> <p>Consist of: ‣ a) P86726 ‣ b) P41158031 ‣ c) P31358394</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ PU5MB0011 Std. ‣ PU5MB0011A 0.010 ‣ PU5MB0011B 0.020 ‣ PU5MB0011C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0007 Std. ‣ PU5ME0007A 0.010 ‣ PU5ME0007B 0.020 ‣ PU5ME0007C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P36883108 x2</p> <p>3) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0021</p> <p>2) Bottom Gasket ‣ PU5LB0056</p> <p>3) Head Gasket ‣ P36812548</p> <p>4) Rocker Cover Gasket ‣ P36811428</p>	 <p>1) Bush, Con Rod ‣ P31134134 x6</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p>	 <p>1) Tappet ‣ P31434163</p> <p>2) Push Rod ‣ P31434307</p> <p>3) Idler Gear ‣ P41115007</p> <p>4) Camshaft ‣ P3141F141</p>	 <p>1) Gear & Shaft ‣ P41115367</p> <p>2) Gear ‣ P31171731</p> <p>3) Front Bush ‣ P31134129</p> <p>4) Rear Bush ‣ P2511447</p> <p>5) Seal ‣ P2418F432</p> <p>6) Insert Valve Exhaust ‣ P33152154 x6</p> <p>7) Insert Valve Intake ‣ P33152155 x6</p> <p>8) Idler Gear Bush ‣ P31134121</p>
<p>Valve Train Kit ‣ PVTK610</p>	<p>1) Valve, Intake ‣ P31431315 x6</p> <p>2) Valve, Exhaust ‣ P3142A052 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x6 ‣ 3b) P3343J002 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x12 ‣ 4b) P31745121 x12</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>
 <p>Oil Pump ‣ P41314067</p>	 <p>Lift Pump ‣ P2641A064</p>	 <p>1) Water Pump ‣ PU5MW0016</p> <p>2) Thermostat ‣ P2485666 ‣ P2485613</p>	 <p>1) Rocker Shaft ‣</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p>	 <p>Heater Plug ‣ P2666108 (Bayonet Fitting)</p>

(1): To ESN 354UA3355T.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(3): Check build list for proper application use

Engine Series:
6.354

Engine Model:
T6.354.1 (TH)
/ TC6.354.1
(TT)

Engine Data:
TURBOCHARGED
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in
/98.476 mm

Mf Agricultural

750
760 - (1)
1105 -
(TT21724)
1130 - (4)
1135 -
(TH22431)
1135 -
(TH21722)

White-Farm

2-105 -
(TH22282)

New-Idea

Combine -
(TH22481)



- 1) **Engine O/H Kit**
‣ POK661
- 2) **Basic Engine Kit**
‣ PBK661
‣ SPEC SHEET -
T6.354.1 (TH, TG)



- Piston-Liner Kit**
‣ PCK354
- Consist of:**
‣ a) P86726
‣ b) P41158031
‣ c) P31358394
- 6 Per Engine**



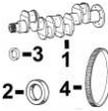
- Main Bearing Set**
‣ PU5MB0011 Std.
‣ PU5MB0011A 0.010
‣ PU5MB0011B 0.020
‣ PU5MB0011C 0.030
- Set of 2 Pairs**



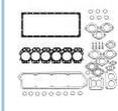
- Con Rod Bearing Set**
‣ PU5ME0007 Std.
‣ PU5ME0007A 0.010
‣ PU5ME0007B 0.020
‣ PU5ME0007C 0.030
- Set of 6 Pairs**



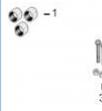
- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90091
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0026
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P36812547
- 4) **Valve Cover Gasket**
‣ P36811429
- 5) **Rocker Box Gasket**
‣ P36811451



- 1) **Bush, Con Rod**
‣ P31134134 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12



- 1) **Tappet**
‣ P31434163
- 2) **Push Rod**
‣ P31434307
- 3) **Camshaft Gear**
‣ P31171931
- 5) **Idler Gear**
‣ P41115007



- 1) **Aux. Drive Shaft**
‣ P31173422
- 2) **Gear & Shaft**
‣ P41115367
‣ 3) Gear
‣ P31171731
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6
- 9) **Idler Gear Bush**
‣ P31134121

- Valve Train Kit**
‣ PVTK610

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A052 x6
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121 x12

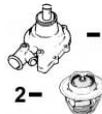
- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



- Oil Pump**
‣ P41314067



- Lift Pump**
‣ P2641A064



- 1) **Water Pump**
‣ PU5MW0016
- 2) **Thermostat**
‣ P2485666
‣ P2485613



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484



- Heater Plug**
‣ P2666108
(Bayonet Fitting)

(1): From ESN UA48970L.

(3): Use on Build No: TH22481.

(5): Also available: P31358324 Parallel Semi-Finished Liner;
P31358393 Flanged, Semi Finished Liner; and P31358398 Finished
Liner in 0.010" Oversize.

(7): Do not use on Build numbers TH22431 and TH22282.

(2): Do Not Use on Build No: TH21794.

(4): From ESN 354UA3356T.

(6): Check with Build List.

(8): Check build list for proper application use

PERKINS 6.354.1 LIP SEAL

Engine Series:
6.354

Engine Model:
6.354.1 (TG)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

White-Farm
2-85 - Tractor (TG22453)



- 1) **Engine O/H Kit**
‣ POK667
- 2) **Basic Engine Kit**
‣ PBK667
‣ SPEC SHEET - T6.354.1 (TH, TG)



- 1) **Piston-Liner Kit**
‣ PU5MK0125
 - Consist of:**
 - a) P86745
 - b) P41158032
 - c) P31358394
- 6 Per Engine**



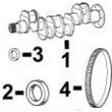
- 1) **Main Bearing Set**
‣ PU5MB0011 Std.
‣ PU5MB0011A 0.010
‣ PU5MB0011B 0.020
‣ PU5MB0011C 0.030
- Set of 7 Pairs**



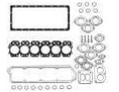
- 1) **Con Rod Bearing Set**
‣ PU5ME0003 Std.
‣ PU5ME0003A 0.010
‣ PU5ME0003B 0.020
‣ PU5ME0003C 0.030
- Set of 6 Pairs**



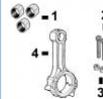
- 1) **Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90092
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



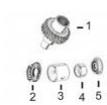
- 1) **Top Gasket Set**
‣ PU5LT0026
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P36812547
- 5) **Valve Cover Gasket**
‣ P36811429
- 6) **Rocker Box Gasket**
‣ P36811451



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Tappet**
‣ P31434163
- 2) **Push Rod**
‣ P31434307
- 3) **Camshaft Gear**
‣ P31171931
- 4) **Idler Gear**
‣ P41115007



- 1) **Gear & Shaft**
‣ P41115367
- 2) **Gear**
‣ P31171731
- 3) **Front Bush**
‣ P31134129
- 4) **Rear Bush**
‣ P2511447
- 5) **Seal**
‣ P2418F432
- 6) **Insert Valve Exhaust**
‣ P33152154 x6
- 7) **Insert Valve Intake**
‣ P33152155 x6
- 8) **Idler Gear Bush**
‣ P31134121

- 1) **Valve Train Kit**
‣ PVTK616

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P31431931 x6
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



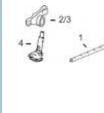
- 1) **Oil Pump**
‣ P41314067



- 1) **Lift Pump**
‣ P2641A064



- 1) **Water Pump**
‣ PU5MW0016
- 2) **Thermostat**
‣ P2485666
‣ P2485613



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484

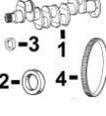
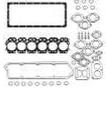
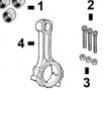


- 1) **Heater Plug**
‣ P2666108
- 2) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): Check build list for proper application use

PERKINS 6.354.2 ROPE & LIP SEAL

<p>Engine Series: 6.354</p> <p>Engine Model: 6.354.2 (TJ)</p> <p>Engine Desc: TURBOCHARGE</p> <p>Engine Data: Rope & Lip Seal Kits include both rear seals</p> <p>Engine Info: 6 Cyl</p> <p>Engine Dimensions: Bore: 3.8770 in / 98.476 mm</p> <p>White Cockshutt 7600 Combine - (TJ22189)</p>	 <p>1) Engine O/H Kit ‣ POK668</p> <p>2) Basic Engine Kit ‣ PBK668 ‣ SPEC SHEET - 6.354.2 (TJ)</p>	 <p>Piston-Liner Kit ‣ PU5MK0125</p> <p>Consist of: ‣ a) P86745 ‣ b) P41158032 ‣ c) P31358394</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ P85010 Std. ‣ P85010A 0.010 ‣ P85010B 0.020 ‣ P85010C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85043 Std. ‣ P85043A 0.010 ‣ P85043B 0.020 ‣ P85043C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475 ‣ P36883108 x2</p> <p>3) Crankshaft Kit ‣ PZZ90090</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0028</p> <p>2) Bottom Gasket ‣ PU5LB0056</p> <p>3) Head Gasket ‣ P36812545</p> <p>4) Valve Cover Gasket ‣ P36811451</p>	 <p>1) Bush, Con Rod ‣ P31134123 x6</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Tappet ‣ P31434163</p> <p>2) Push Rod ‣ P31434307</p> <p>3) Camshaft Gear ‣ P31171353</p> <p>4) Crankshaft Gear ‣ P31171682</p> <p>5) Idler Gear ‣ P41115007</p>	 <p>1) Aux. Drive Shaft ‣ P31173422</p> <p>2) Gear & Shaft ‣ P41115367 ‣ 3) Gear ‣ P31171731</p> <p>4) Front Bush ‣ P31134129</p> <p>5) Rear Bush ‣ P2511447</p> <p>6) Seal ‣ P2418F432</p> <p>7) Insert Valve Exhaust ‣ P33152154 x6</p> <p>8) Insert Valve Intake ‣ P33152155 x6</p> <p>9) Idler Gear Bush ‣ P31134121</p>	
<p>Valve Train Kit ‣ PVTK610</p>	<p>1) Valve, Intake ‣ P31431315 x6</p> <p>2) Valve, Exhaust ‣ P3142A052 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x6 ‣ 3b) P3343J002 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x12 ‣ 4b) P31745121 x12</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>	
 <p>Oil Pump ‣ P41314067</p>	 <p>Lift Pump ‣ P2641A064</p>	 <p>1) Water Pump ‣</p> <p>2) Thermostat ‣ P2485604 x2</p>	 <p>1) Rocker Shaft ‣</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Relief Valve ‣ P41371158</p>		

(1): From ESN U12129L.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(3): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Clark Equipment
16000-30000 - (TW70007)
C500-160-300D - (TW70142)

Mf Agricultural
1014 - (TW31087)
TX550 - Combine (TW31015)

White-Farm
8600 - Combine (TW70114)

Perkins
General Industrial - (TW33425)

Hyster
H150-275-300D - (TW70005)



- 1) **Engine O/H Kit**
‣ POK671
- 2) **Basic Engine Kit**
‣ PBK671
‣ SPEC SHEET - 6.354.4 (TW)



- 1) **Piston-Liner Kit**
‣ PU5MK0127
- Consist of:**
- a) P86740
- b) P41158041
- c) P31358394



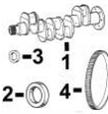
- 1) **Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030
- 3) **Set of 7 Pairs**



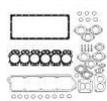
- 1) **Con Rod Bearing Set**
‣ P85043 Std.
‣ P85043A 0.010
‣ P85043B 0.020
‣ P85043C 0.030
- 6) **Set of 6 Pairs**



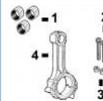
- 1) **Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- 2) **Set of 2 Pairs**



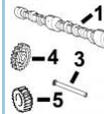
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90086
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0017
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P3681H202



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Camshaft**
‣ P31416303
- 2) **Tappet**
‣ P31434163
- 3) **Push Rod**
‣ P31434307
- 4) **Camshaft Gear**
‣ P31171353
‣ P31171931
- 5) **Crankshaft Gear**
‣ P31171682



- 1) **Aux. Drive Shaft**
‣ P31173423
- 2) **Gear & Shaft**
‣ P41115367
‣ 3) Gear
‣ P31171733
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6

- 1) **Valve Train Kit**
‣ PVTK611

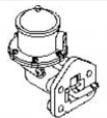
- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6
- 3) **Guide, Valve**
- a) **Intake** b) **Exhaust**
- 3a) P3343F002 x6
- 3b) P3343J002 x6

- 4) **Spring, Valve**
- a) **Inner** b) **Outer**
- 4a) P31744131 x12
- 4b) P31745121 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



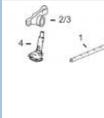
- 1) **Oil Pump**
‣ P4132F015



- 1) **Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ P41313027
‣ PU5MW0129
- 2) **Thermostat**
‣ P2485613 x2



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Relief Valve**
‣ P41371193



- 1) **Cylinder Head**
‣ PZZ80024
- 2) **Heater Plug**
‣ P2666108
- 3) **Oil Pressure Switch (Bayonet Fitting)**
‣ P2848062

(1): Use Only on Build Now: TW70014.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): Check with Build List.

(4): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL 2

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:

Bore: 3.8770 in / 98.476 mm

Clark-Equipment

45C - Shovel (TW70016)

White-Farm
8600 - Combine (TW70003)

New-Holland
Stack Cruiser - (TW70031)



- 1) **Engine O/H Kit**
‣ POK672
- 2) **Basic Engine Kit**
‣ PBK672
‣ SPEC SHEET - 6.354.4 (TW)



- Piston-Liner Kit**
‣ PCK619
- Consist of:**
‣ a) PU5LP0019
‣ b) P41158017
‣ c) P31358394



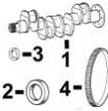
- Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030



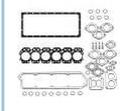
- Con Rod Bearing Set**
‣ P85043 Std.
‣ P85043A 0.010
‣ P85043B 0.020
‣ P85043C 0.030



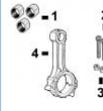
- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007



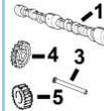
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90086
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0017
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P3681H202



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Camshaft**
‣ P31416303
- 2) **Tappet**
‣ P31434163
- 3) **Push Rod**
‣ P31434307
- 4) **Camshaft Gear**
‣ P31171353
‣ P31171931
- 5) **Crankshaft Gear**
‣ P31171682



- 1) **Aux. Drive Shaft**
‣ P31173423
- 2) **Gear & Shaft**
‣ P41115367
‣ 3) Gear
‣ P31171733
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6

- Valve Train Kit**
‣ PVTK611

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

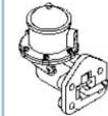
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



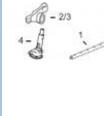
- Oil Pump**
‣ P4132F015



- Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ P41313027
‣ PU5MW0129
- 2) **Thermostat**
‣ P2485613 x2



- 1) **Rocker Shaft**
‣ P41151483
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Relief Valve**
‣ P41371193



- 1) **Cylinder Head**
‣ PZZ80024
- 2) **Heater Plug**
‣ P2666108
- (Bayonet Fitting)
- 3) **Oil Pressure Switch**
‣ P2848062

(1): Use on Build No: TW70016.

(2): Use on Build No: TW70031 or TW70003.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Use on Build No: TW70003.

(5): Check build list for proper application use

PERKINS 6.354.4 LIP SEAL 3

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:

Bore: 3.8770 in / 98.476 mm

Mf Agricultural

699 - (TW31125)
2675 - (TW31008)
3090 - (TW31159)

White-Farm

2-85 Tractor - (TW70008)



- 1) **Engine O/H Kit**
‣ POK673
- 2) **Basic Engine Kit**
‣ PBK673
‣ SPEC SHEET - 6.354.4 (TW)



- Piston-Liner Kit**
‣ PCK619
- Consist of:**
‣ a) PU5LP0019
‣ b) P41158017
‣ c) P31358394



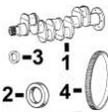
- Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030



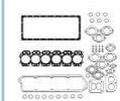
- Con Rod Bearing Set**
‣ P85043 Std.
‣ P85043A 0.010
‣ P85043B 0.020
‣ P85043C 0.030



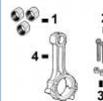
- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007



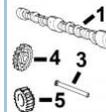
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90086
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0033
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P3681H202



- 1) **Bush, Con Rod**
‣ P31134123 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90009



- 1) **Camshaft**
‣ P31416303
- 2) **Tappet**
‣ P31434163
- 3) **Push Rod**
‣ P31434307
- 4) **Camshaft Gear**
‣ P31171353
‣ P31171931
- 5) **Crankshaft Gear**
‣ P31171682



- 1) **Aux. Drive Shaft**
‣ P31173423
- 2) **Gear & Shaft**
‣ P41115367
‣ 3) Gear
‣ P31171733
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6

- Valve Train Kit**
‣ PVTK611

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121 x12

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



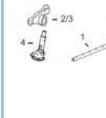
- Oil Pump**
‣ P4132F015



- Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ P41313027
- 2) **Thermostat**
‣ P2485613 x2



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Relief Valve**
‣ P41371193



- 1) **Cylinder Head**
‣ PZZ80024
- 2) **Heater Plug**
‣ P2666108
- (Bayonet Fitting)
- 3) **Oil Pressure Switch**
‣ P2848062

(1): Use Only with Build No: TW31008.

(2): Do Not Use on Build No: TW70008.

(3): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(4): Do not use on Build TW70008.

(5): Check build list for proper application use

Engine Series:
6.354

Engine Model:
6.354.4 (TW)

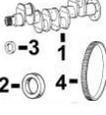
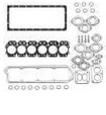
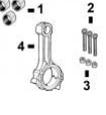
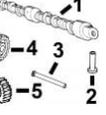
Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Marine

Pleasure Craft - (TW33196)
Pleasure Craft - (TW33197)
Commercial Craft - (TW70087)
Pleasure Craft - (TW70087)

 <p>1) Engine O/H Kit ‣ POK675</p> <p>2) Basic Engine Kit ‣ PBK675 ‣ SPEC SHEET - 6.354.4 (TW)</p>	 <p>Piston-Liner Kit ‣ PU5MK0127</p> <p>Consist of: ‣ a) P86740 ‣ b) P41158041 ‣ c) P31358394</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ PU5MB0030 Std. ‣ PU5MB0030A 0.010 ‣ PU5MB0030B 0.020 ‣ PU5MB0030C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ P85043 Std. ‣ P85043A 0.010 ‣ P85043B 0.020 ‣ P85043C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90086</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ P68243</p> <p>2) Bottom Gasket ‣ PU5LB0056</p> <p>3) Head Gasket ‣ P3681H202</p>	 <p>1) Bush, Con Rod ‣ P31134123 x6</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p> <p>4) Con Rod ‣ PZZ90009</p>	 <p>1) Camshaft ‣ P31416303</p> <p>2) Tappet ‣ P31434163</p> <p>3) Push Rod ‣ P31434307</p> <p>4) Camshaft Gear ‣ P31171353 ‣ P31171931</p> <p>5) Crankshaft Gear ‣ P31171682</p>	 <p>1) Aux. Drive Shaft ‣ P31173423</p> <p>2) Gear & Shaft ‣ P41115367 ‣ 3) Gear ‣ P31171733</p> <p>4) Front Bush ‣ P31134129</p> <p>5) Rear Bush ‣ P2511447</p> <p>6) Seal ‣ P2418F432</p> <p>7) Insert Valve Exhaust ‣ P33152154 x6</p> <p>8) Insert Valve Intake ‣ P33152155 x6</p>
<p>Valve Train Kit ‣ PVTK617</p>	<p>1) Valve, Intake ‣ P31431315 x6</p> <p>2) Valve, Exhaust ‣ P3142A051 x6</p>	<p>3) Guide, Valve a) Intake ‣ 3a) P3343F002 x6</p>	<p>4) Guide, Valve a) Exhaust ‣ 4a) P3343J002 x6</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>
 <p>Oil Pump ‣ P4132F015</p>	 <p>Lift Pump ‣ P2641729</p>	 <p>Thermostat ‣ P2485604 x2</p>	 <p>1) Rocker Shaft ‣</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Relief Valve ‣ P41371193</p>	 <p>1) Cylinder Head ‣</p> <p>2) Heater Plug ‣ P2666108 (Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p>

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.
(3): Valve springs not available.

(2): Check build list for proper application use.

PERKINS T6.354.4 LIP SEAL

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Mf Agricultural

560 - (TU31074)
560 - (TU31126)
660 - (TU31076)
TX750 - (TU31006)
TX850 - (TU31006)

White-Farm

8800 - Combine (TU70001)



- 1) **Engine O/H Kit**
‣ POK680
- 2) **Basic Engine Kit**
‣ PBK680
‣ SPEC SHEET - T6.354.4 (TU)



- Piston-Liner Kit**
‣ PU5MK0071
- Consist of:**
‣ a) P68803
‣ b) P41158005
‣ c) P31358394



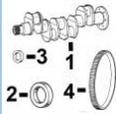
- Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030



- Con Rod Bearing Set**
‣ PU5ME0003 Std.
‣ PU5ME0003A 0.010
‣ PU5ME0003B 0.020
‣ PU5ME0003C 0.030



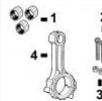
- Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007



- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90105
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ PU5LT0018
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P3681H202



- 1) **Bush, Con Rod**
‣ P31134131 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90013



- 1) **Camshaft**
‣ P31416303
- 2) **Tappet**
‣ P31434163
- 3) **Push Rod**
‣ P31434307
- 4) **Camshaft Gear**
‣ P31171931
- 5) **Crankshaft Gear**
‣ P31171682



- 1) **Aux. Drive Shaft**
‣ P31173423
- 2) **Gear & Shaft**
‣ P41115367
‣ 3) Gear
‣ P31171733
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6

- Valve Train Kit**
‣ PVTK611

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

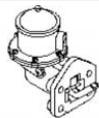
- 3) **Guide, Valve**
a) Intake b) Exhaust
‣ 3a) P3343F002 x6
‣ 3b) P3343J002 x6

- 4) **Spring, Valve**
a) Inner b) Outer
‣ 4a) P31744131 x12
‣ 4b) P31745121

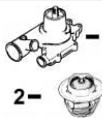
- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



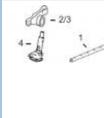
- Oil Pump**
‣ P4132F016



- Lift Pump**
‣ P2641729



- 1) **Water Pump**
‣ PU5MW0132
- 2) **Thermostat**
‣ P2485613 x2



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Relief Valve**
‣ P41371194



- 1) **Cylinder Head**
‣ PZZ80024
- 2) **Heater Plug**
‣ P2666108
(Bayonet Fitting)
- 3) **Oil Pressure Switch**
‣ P2848062

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.

(2): Check build list for proper application use

PERKINS T6.354.4 LIP SEAL 2

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

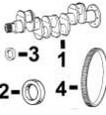
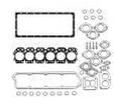
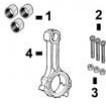
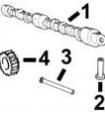
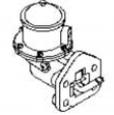
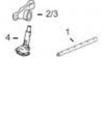
Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

JCB
418 - Wheel Loader

Mf Agricultural
2680 - (TU31045)
2680 - (TU31046)
2685 - (TU31045)
2685 - (TU31046)
3530 - (TU31143)
RX95 - (TU31010)

White-Farm
2-105 - (TU70018)

 <p>1) Engine O/H Kit ‣ POK681</p> <p>2) Basic Engine Kit ‣ PBK681 ‣ SPEC SHEET - T6.354.4 (TU)</p>	 <p>Piston-Liner Kit ‣ PU5MK0071</p> <p>Consist of: ‣ a) P68803 ‣ b) P41158005 ‣ c) P31358394</p> <p>6 Per Engine</p>	 <p>Main Bearing Set ‣ PU5MB0030 Std. ‣ PU5MB0030A 0.010 ‣ PU5MB0030B 0.020 ‣ PU5MB0030C 0.030</p> <p>Set of 7 Pairs</p>	 <p>Con Rod Bearing Set ‣ PU5ME0003 Std. ‣ PU5ME0003A 0.010 ‣ PU5ME0003B 0.020 ‣ PU5ME0003C 0.030</p> <p>Set of 6 Pairs</p>	 <p>Thrust Washer Set ‣ P31137551/61 Std. ‣ P31137312/22 0.007</p> <p>Set of 2 Pairs</p>
 <p>1) Front Seal ‣ P2418F436</p> <p>2) Rear Seal ‣ P2418F475</p> <p>3) Crankshaft Kit ‣ PZZ90105</p> <p>4) Ring Gear ‣ P0410264 122T ‣ P31162121 126T</p>	 <p>1) Top Gasket Set ‣ PU5LT0033</p> <p>2) Bottom Gasket ‣ PU5LB0056</p> <p>3) Head Gasket ‣ P3681H202</p>	 <p>1) Bush, Con Rod ‣ P31134131 x6</p> <p>2) Bolt, Con Rod ‣ P32762144 x12</p> <p>3) Nut, Con Rod ‣ P33221328 x12</p> <p>4) Con Rod ‣ PZZ90013</p>	 <p>1) Camshaft ‣ P31416303</p> <p>2) Tappet ‣ P31434163</p> <p>3) Push Rod ‣ P31434307</p> <p>4) Crankshaft Gear ‣ P31171682</p>	 <p>1) Aux. Drive Shaft ‣ P31173423</p> <p>2) Gear & Shaft ‣ P41115367 ‣ 3) Gear ‣ P31171733</p> <p>4) Front Bush ‣ P31134129</p> <p>5) Rear Bush ‣ P2511447</p> <p>6) Seal ‣ P2418F432</p> <p>7) Insert Valve Exhaust ‣ P33152154 x6</p> <p>8) Insert Valve Intake ‣ P33152155 x6</p>
<p>Valve Train Kit ‣ PVTK611</p>	<p>1) Valve, Intake ‣ P31431315 x6</p> <p>2) Valve, Exhaust ‣ P3142A051 x6</p>	<p>3) Guide, Valve a) Intake b) Exhaust ‣ 3a) P3343F002 x6 ‣ 3b) P3343J002 x6</p>	<p>4) Spring, Valve a) Inner b) Outer ‣ 4a) P31744131 x12 ‣ 4b) P31745121</p>	<p>5) Lock, Valve ‣ P33173108 x24</p> <p>6) Seal, Valve ‣ P33817117 x12</p>
 <p>Oil Pump ‣ P4132F016</p>	 <p>Lift Pump ‣ P2641729</p>	 <p>1) Water Pump ‣ P41313027</p> <p>2) Thermostat ‣ P2485613 x2</p>	 <p>1) Rocker Shaft ‣</p> <p>2) Rocker Arm LH ‣ P41151483</p> <p>3) Rocker Arm RH ‣ P41151484</p> <p>4) Relief Valve ‣ P41371194</p>	 <p>1) Cylinder Head ‣ PZZ80024</p> <p>2) Heater Plug ‣ P2666108</p> <p>(Bayonet Fitting)</p> <p>3) Oil Pressure Switch ‣ P2848062</p>

(1): Use Only on Build No: TU31143 or TU70018.(2) Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.(3) Check build list for proper application use.

(3): Check build list for proper application use.

(2): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize.(3) Check build list for proper application use.

Engine Series:
6.354

Engine Model:
T6.354.4 (TU)

Engine Desc:
TURBOCHARGE

Engine Data:
Lip Seal

Engine Info:
6 Cyl

Engine Dimensions:
Bore: 3.8770 in / 98.476 mm

Marine

Pleasure Craft - (TU33203)
Pleasure Craft - (TU70025)
Pleasure Craft - (TU70027)



- 1) **Engine O/H Kit**
‣ POK682
- 2) **Basic Engine Kit**
‣ PBK682
‣ SPEC SHEET - T6.354.4 (TU)



- 1) **Piston-Liner Kit**
‣ PU5MK0071
 - Consist of:**
 - a) P68803
 - b) P41158005
 - c) P31358394
- 6 Per Engine**



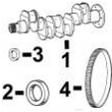
- 1) **Main Bearing Set**
‣ PU5MB0030 Std.
‣ PU5MB0030A 0.010
‣ PU5MB0030B 0.020
‣ PU5MB0030C 0.030
- Set of 7 Pairs**



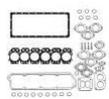
- 1) **Con Rod Bearing Set**
‣ PU5ME0003 Std.
‣ PU5ME0003A 0.010
‣ PU5ME0003B 0.020
‣ PU5ME0003C 0.030
- Set of 6 Pairs**



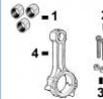
- 1) **Thrust Washer Set**
‣ P31137551/61 Std.
‣ P31137312/22 0.007
- Set of 2 Pairs**



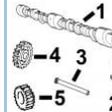
- 1) **Front Seal**
‣ P2418F436
- 2) **Rear Seal**
‣ P2418F475
- 3) **Crankshaft Kit**
‣ PZZ90105
- 4) **Ring Gear**
‣ P0410264 122T
‣ P31162121 126T



- 1) **Top Gasket Set**
‣ P68243
- 2) **Bottom Gasket**
‣ PU5LB0056
- 3) **Head Gasket**
‣ P3681H202



- 1) **Bush, Con Rod**
‣ P31134131 x6
- 2) **Bolt, Con Rod**
‣ P32762144 x12
- 3) **Nut, Con Rod**
‣ P33221328 x12
- 4) **Con Rod**
‣ PZZ90013



- 1) **Camshaft**
‣ P31416303
- 2) **Tappet**
‣ P31434163
- 3) **Push Rod**
‣ P31434307
- 4) **Camshaft Gear**
‣ P31171931
- 5) **Crankshaft Gear**
‣ P31171682



- 1) **Aux. Drive Shaft**
‣ P31173423
- 2) **Gear & Shaft**
‣ P41115367
- 3) **Gear**
‣ P31171733
- 4) **Front Bush**
‣ P31134129
- 5) **Rear Bush**
‣ P2511447
- 6) **Seal**
‣ P2418F432
- 7) **Insert Valve Exhaust**
‣ P33152154 x6
- 8) **Insert Valve Intake**
‣ P33152155 x6

- 1) **Valve Train Kit**
‣ PVTK617

- 1) **Valve, Intake**
‣ P31431315 x6
- 2) **Valve, Exhaust**
‣ P3142A051 x6

- 3) **Guide, Valve**
- a) **Intake**
‣ 3a) P3343F002 x6

- 4) **Spring, Valve**
- a) **Exhaust**
‣ 4a) P3343J002 x6

- 5) **Lock, Valve**
‣ P33173108 x24
- 6) **Seal, Valve**
‣ P33817117 x12



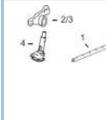
- 1) **Oil Pump**
‣ P4132F016



- 1) **Lift Pump**
‣ P2641729



- 1) **Thermostat**
‣ P2485604 x2



- 1) **Rocker Shaft**
‣
- 2) **Rocker Arm LH**
‣ P41151483
- 3) **Rocker Arm RH**
‣ P41151484
- 4) **Relief Valve**
‣ P41371194



- 1) **Heater Plug**
‣ P2666108
- (Bayonet Fitting)
- 2) **Oil Pressure Switch**

(1): Also available: P31358324 Parallel Semi-Finished Liner; P31358393 Flanged, Semi Finished Liner; and P31358398 Finished Liner in 0.010" Oversize. (2) Check build list for proper application use. (3) Valve springs not