PowerTech
Engine & Equipment
Model

6068D

6.8D

6 Cyl

Bore: 4.19 in
106.5 mm
Pin Ø: 1.375 in
35 mm

Piston (m):
RE59279, RE505101

Con Rod (m):
RE123959, R500000

APPLICATIONS:

AGRICULTURAL

6205	6515
6505	6520
6510	SE6520
SE6510	

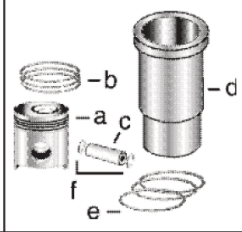
OEM
6.8L

1) Engine O/H Kit

2) Engine I/F Kit

1) TRE66095
TRE66095A (*)
(*) w/C. Rod R500000

2) TIK66095
TIK66095A (*)
(*) w/C. Rod R500000



Piston-Liner Kit

TRE65966
(RE505110)
Consists of:
a) TRE59279
b) TRE66271
c) TR123178
d) TR116383
e) TAR65507
f) TM41029

Main Bearing

TRE65165 Std.
TRE65911 .010
TRE65165B .020 (8)

Use 6

Thrust Bearing

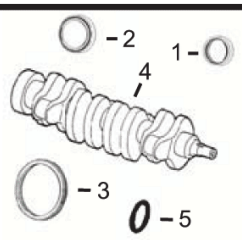
TRE65168 Std.
TRE65912 .010
TRE65168B .020 (8)

Use 1

Con Rod Bearing

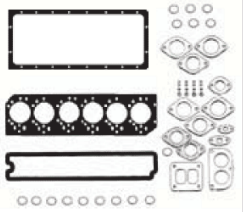
TRE65908 Std.
TRE65909 .010
TRE65908B .020 (8)

Use 6



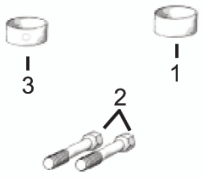
1) Front Seal
2) Rear Seal
3) Ring Gear
4) Crankshaft
5) Seal

1) TRE505515 (5)
2) TRE44574
3) TR28811 (129T)
or
TR114282 (142T)
4) TRE52850 (3)
5) TH35244



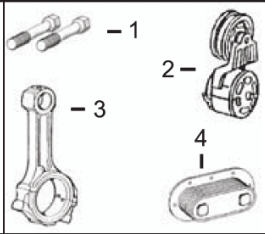
1) O/H Gasket Set
2) Head Gasket Set
3) Head Gasket
4) Oil Pan Gasket
5) Rocker Cover Gsk

1) TRE501456
2) TRE66085
3) TR116516
4) TR123354
5) TR123543



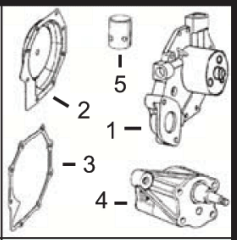
1) Bush, Con Rod
2) Bolt, Con Rod
3) Bushing, Cam

1) TR123960 *x6*
2) TR114083 *x12* (1)
TR501124 *x12* (1)
3) TR119874 *x1*



1) Cyl Hd Cap Screw
2) Tensioner, Belt
3) Con Rod
4) Oil Cooler

1) TR85363 *x18* (2)
2) TRE518097 (7)
TRE68715 (7)
3) TRE500002
4) TRE59296 (5 Plates)
TRE56690 (7 Plates)
TRE59298 (9 Plates)



1) Water Pump
2) Water Pump Cov
3) Water Pump Gsk
4) Pump, Oil
5) Tappet

1) TRE500737 (Standard Flow)
TRE500734 (High Flow)
2) TRE508566
3) TR123417
4) TRE504914
5) TR123565 *x8*

Valve, Intake

TR98062 Std.
TR97490 .015

Valve, Exhaust

TR90692 Std.
TR97492 .015

Insert, Valve
1) Intake
2) Exhaust

1) TR98063 Std.
TR98335 O/S
2) TR85687 Std.
TR93910 O/S

1) Seal, Valve
2) Lock, Valve

1) TRE31617
2) TR91889

1) Spring, Valve
2) Rotator, Valve

1) TR26125
2) TRE60005

Thermostat

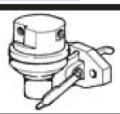
TRE522076 180° F (7)
TRE528652 180° F (7)
TRE540550 180° F (7)
TRE64354 180° F (7)

Injector, Pencil

TRE60062 (Non Turbo)
TRE48786 (Turbo)
TRE531436 (6)

Seal, Injector

TR92352
TR48000



Fuel Transfer Pump

TRE68345
or
TRE66153 (4)

(4) Line Connections are both threaded.
(5) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(6) Use with Stanadyne DE10 Injection Pump.
(7) Check application for proper usage.
(8) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(3) Crankshaft (m) R116076, R502654.