PowerTech
Engine & Equipment
Model

4045D

4.5D

4 Cyl

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

Piston (m):
RE59279, RE505101

Con Rod (m):
R123959, R500000

APPLICATIONS:

AGRICULTURAL

5410	5715
5415	6010
5420/N	6110
5510	6610
5615	

OEM
4.5L

CONSTRUCTION

210LE	486E
310E	488E
450H	550H
485E	650H

1) Engine O/H Kit	Piston-Liner Kit	Main Bearing	Thrust Bearing	Con Rod Bearing
2) Engine I/F Kit **1) TRE66092** **TRE66092A** (*) (*) w/C. Rod R500000 **2) TIK66092** **TIK66092A** (*) (*) w/C. Rod R500000	**TRE65966** **(RE505110)** Consists of: a) TRE59279 b) TRE66271 c) TR123178 d) TR116383 e) TAR65507 f) TM41029	TRE65165 **Std.** TRE65911 **.010** TRE65165B **.020** (9) **Use 4**	TRE65168 **Std.** TRE65912 **.010** TRE65168B **.020** (9) **Use 1**	TRE65908 **Std.** TRE65909 **.010** TRE65908B **.020** (9) **Use 4**
1) Front Seal **2) Rear Seal** 3) Ring Gear 4) Crankshaft 5) Seal	**1) O/H Gasket Set** 2) Head Gasket Set 3) Head Gasket 4) Oil Pan Gasket 5) Rocker Cover Gsk	**1) Bush, Con Rod** **2) Bolt, Con Rod** **3) Bush, Bal.Shaft** **4) Bush, Camshaft** 5) Camshaft 6) Bal. Shaft R/H 7) Bal. Shaft L/H	1) Cyl Hd Cap Screw 2) Tensioner, Belt 3) Con Rod 4) Oil Cooler	1) Water Pump 2) Water Pump Cov 3) Water Pump Gsk 4) Pump, Oil 5) Tappet
1) TRE505515 (8) 2) TRE44574 3) TR28811 (129T) or TR114282 (142T) 4) TRE50618 (5) 5) TH35244	1) TRE501455 2) TRE66082 3) TR116515 4) TR123352 (2) TR97342 (3) (R123353) 5) TR123542	1) TR123960 ***x4*** 2) TR114083 ***x8*** (1) TR501124 ***x8*** (1) 3) TR115299 ***x6*** 4) TR119874 ***x1*** 5) TRE56375 (6) 6) TRE500448 7) TRE500449	1) TR85363 ***x18*** (4) 2) TRE518097 (10) TRE68715 (10) 3) TRE500002 4) TRE59296 **(5 Plates)** TRE56690 **(7 Plates)** TRE59298 **(9 Plates)**	1) TRE500737 **(Standard Flow)** TRE500734 **(High Flow)** 2) TRE508566 3) TR123417 4) TRE504914 5) TR123565 ***x8***

	Valve, Intake	Valve, Exhaust	Insert, Valve 1) Intake 2) Exhaust	1) Seal, Valve 2) Lock, Valve	1) Spring, Valve 2) Rotator, Valve
	TR98062 **Std.** TR97490 **.015**	TR90692 **Std.** TR97492 **.015**	1) TR98063 **Std.** TR98335 **O/S** 2) TR85687 **Std.** TR93910 **O/S**	1) TRE31617 2) TR91889	1) TR26125 2) TRE60005

Thermostat	Injector, Pencil	Seal, Injector	Fuel Transfer Pump
TRE522076 180° F (10) TRE528652 180° F (10) TRE540550 180° F (10) TRE64354 180° F (10)	TRE60062 (Non Turbo) TRE48786 (Turbo) TRE531436 (11)	TR92352 TR48000	TRE68345 or TRE66153 (7)

(1) Use TR114083 Rod Bolts with Machine Split Connecting Rods, and use TR501124 Rod Bolts with Fractured Split Connecting Rods.
(2) Use with Oil Pan code 1901, 1902 & 1903, for Steel Oil Pan.
(3) Use with Oil Pan code 1904 & 1905, for Aluminum Oil Pan.

(4) Replace all R78558 Cap Screws with Flanged Head Cap Screw TR85363.
(5) Crankshaft (m) R113596. Not to be used with applications requiring speed sensor gear.
(6) (m) R135439, R132324, R134213.
(7) Line Connections are both threaded.
(8) 1 Piece Unitized Seal and Wearsleeve; Replaces TRE59810, RE538097.
(9) Proper bearing journal radius must be maintained during the machining of the crankshaft to ensure proper operation.
(10) Check application for proper usage.
(11) Use with Stanadyne DE10 Injection Pump.