

## P435/P450/P451/P455B/P456 SPARE PARTS LIST

ITEM	PART	DESCRIPTION	QTY.	ITEM	PART	DESCRIPTION	QTY.
1	08377	Crankcase	1	16F	07203	Backup Ring	3
2	08378	Oil Fill Plug with Gasket	1	16G	07258	Copper Washer	3
3	06479	Crankcase cover	1	16H	06431	Oil Scraper	3
3A	07186	Oil Sight Glass w/ Gasket	1	17	06790	Crosshead Pin	3
4	08380	O-Ring	1	19	05444	Oil Seal	3
5	07109	Oil Drain Plug	1	20	05534	Seal Case	3
5A	06015	O-Ring for Oil Drain Plug	1	21	07266	O-Ring	3
5B	08092	Plug with Gasket	1	23	08477	V-Sleeve, 18mm	6
6	01010	Screw	4	24	07929	Pressure Ring	3
6A	01011-0400	Spring Washer	4	25	03476	Weep Return Ring	3
7	04739	Bearing Cover Open	1	26	05574	Manifold (P435/P455/P456)	1
8	05291	Bearing Cover Closed	1	26	08470	Manifold (P450/P451)	1
8A	05292	Shim	1-3	27A	05543	Valve Assembly (Items 27-31)	6
8B	05293	Shim (May not be present)	1	27	05541	Valve Seat	6
8C	05964	Shim	1-2	28	05542	Valve Plate	6
9	01016	O-Ring	2	29	07906	Valve Spring	6
10	07114	Screw with Washer	8	30	07907	Valve Spring Retainer	6
11	07459	Radial Shaft Seal	1	31	07770	O-Ring	6
12	05350	Taper Roller Bearing	2	32	05544	Plug (P435/P455/P456)	6
13	04741	Crankshaft (P435)	1	32	08406	Plug (P450/P451)	6
13	04740	Crankshaft (P450/P455B)	1	33	05545	O-Ring (P435/P455/P456)	6
13	03173	Crankshaft (P451/P456)	1	33	07489	O-Ring (P450/P451)	6
13A	04742	Spacer Ring	1	34	08484	Cap Screw (P435/P455/P456)	8
14	08091	Fitting Key	1	34	08396	Cap Screw (P450/P451)	8
15	08390	Connecting Rod Assembly	3	36	13434	Plug, 1/2" BSP (P435/P455/P456)	1
16	05484	Plunger Assy.(Items 16A-16H)	3	36	13434	Plug, 1/2" BSP (P450/P451)	2
16A	05352	Plunger Base	3	36A	06272	Copper Washer (P435/P455/P456)	1
16B	08397	Plunger Pipe	3	36A	06272	Copper Washer (P450/P451)	2
16D	08399	Tension Screw	3	37	07703	Plug, 3/4" BSP (P435/P455/P456)	1
16E	07023	O-Ring	3				

## P435/P450/P451/P455B/P456 REPAIR KITS

### Plunger Packing Kit - # 09141

Item	Part#	Description	Qty
21	07266	O-Ring	3
23	08477	V-Sleeve	6
24	07929	Pressure Ring	3

### Oil Seal Kit - #09641

Item	Part #	Description	Qty
19	05444	Oil Seal	3

### Valve Assembly Kits

#### P435/P455/P456 - # 09644

Item	Part #	Description	Qty
27A	05543	Valve Assembly, Complete	6
33	05545	O-Ring	6

#### P450/P451 - # 09770

Item	Part #	Description	Qty
27A	05543	Valve Assembly, Complete	6
33	07489	O-Ring	6

## TORQUE & LUBRICATION SPECIFICATIONS - P435/P450/P451/P455B/P456

Position	Item #	Description	Lubrication Information	Torque Amount
3A	07186	Oil Sight Glass	Loctite 5910	106 in.-lbs. (12 Nm)
5	07109	Oil Drain Plug		59 ft.-lbs. (80 Nm)
5B	08092	Plug with Gasket		59 ft.-lbs. (80 Nm)
6	01010	Screw		110 in.-lbs. (12.5 Nm)
10	07114	Screw with Washer		132 in.-lbs. (15 Nm)
15	08390	Screw with Washer		97 in.-lbs. (11 Nm)
16D	08399	Tension Screw	Loctite 243	247 in.-lbs. (28 Nm)
32	05544/08406	Plug	Loctite 243	125 ft.-lbs. (170 Nm)
34	08396/08484	Cap Screw	Lightly Oil	30 ft.-lbs. (40 Nm)