

John Deere

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MODEL:

300 Wheel Loader

MANUAL PREVIEW

PARTS
MANUAL



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JD 300

WHEEL LOADER



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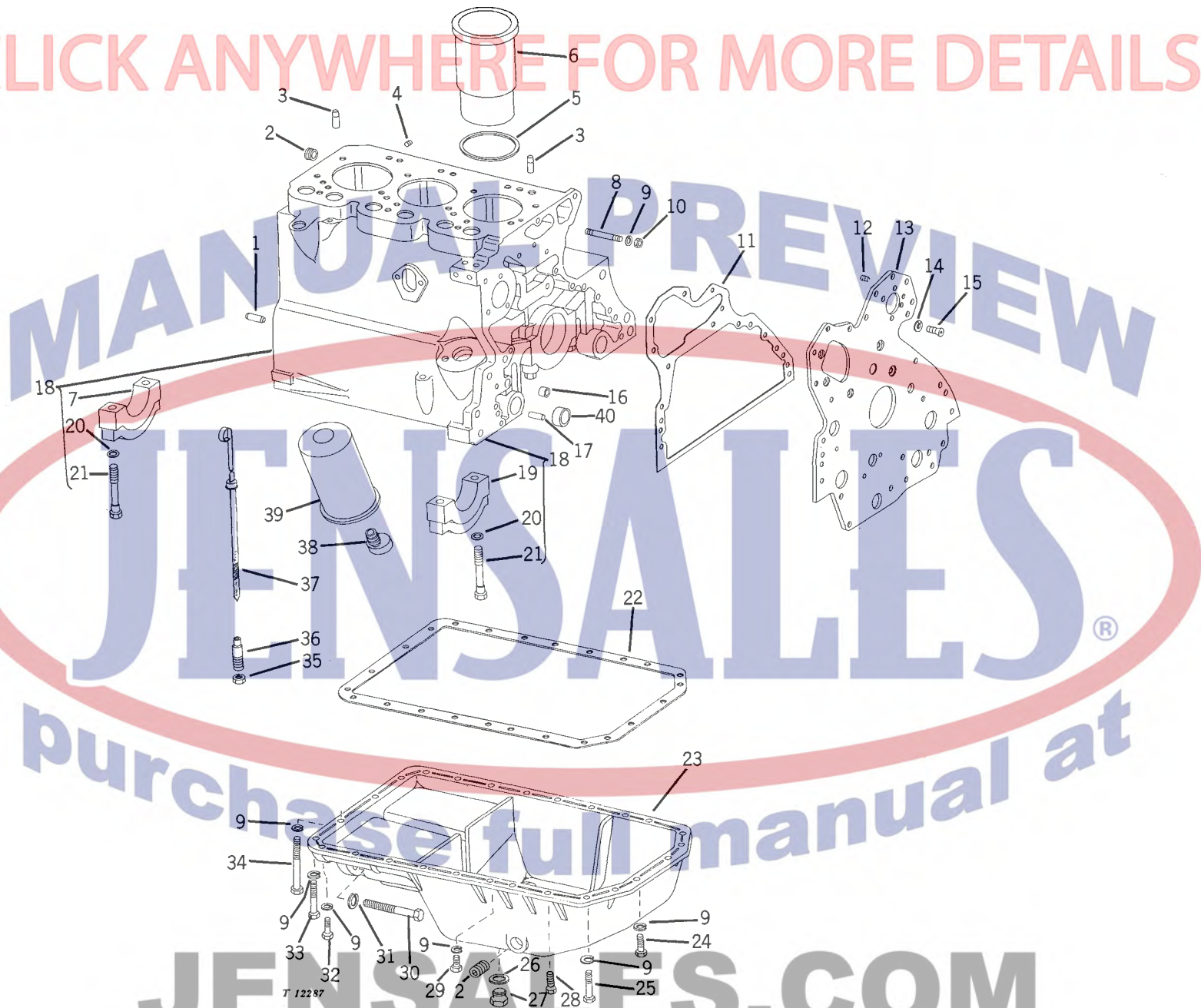
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CYLINDER BLOCK ASSEMBLY

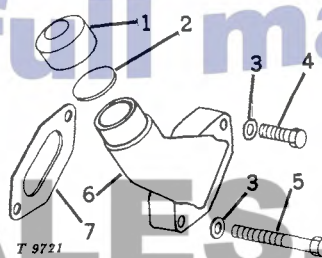


Key	Part No.	Serial No.	Description
1	A 120 R	(-)	Pin, dowel (2 used)
2	15H 649	(-)	Plug, pipe, 3/4" hex. ctsk. (2 used)
3	R 26241 R	(-)	Pin, dowel (2 used)
4	AT 13740 T	(-)	Cock, drain
5	T 23539 T	(-)	Packing (3 used)
6	T 20080 T	(-)	Liner, cylinder (3 used) (gasoline)
	T 20085 T	(-)	Liner, cylinder (3 used) (diesel)
7	AT 21227	(-)	Cap, main bearing, rear, with shims and set gauge
8	T 20173 T	(-)	Stud (2 used)
	R 27612 R	(-)	Stud (1 used)
9	12H 304	(-)	Washer, lock, 3/8" (25 used)
10	14H 812	(-)	Nut, hex., 3/8" (3 used)
11	T 20292 T	(-)	Gasket
12	AT 21191	(-)	Screw, special set (5 used) (diesel)
13	T 20024 T	(-)	Plate, front (gasoline)
	T 20295 T	(-)	Plate, front (diesel)
14	12H 324	(-)	Washer, lock, 3/8" external tooth (5 used)
15	T 20166 T	(-)	Screw, cap, special, 3/8" x 7/8" (5 used)

CYLINDER BLOCK ASSEMBLY - Continued

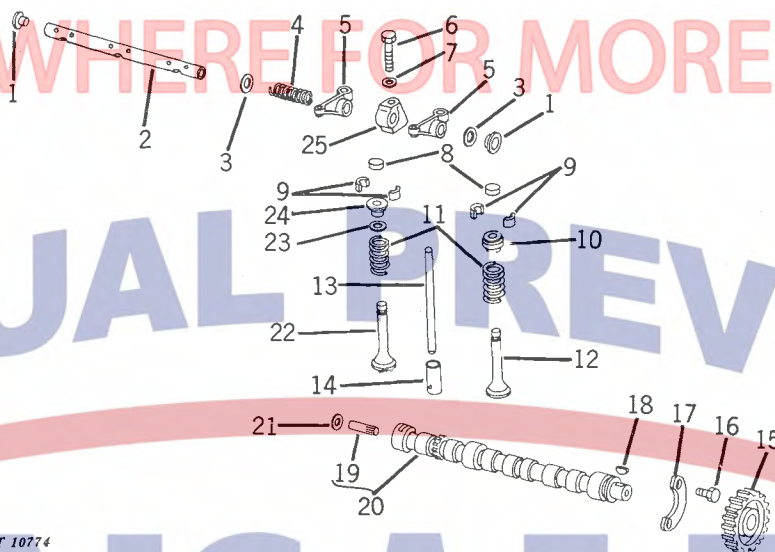
Key	Part No.	Serial No.	Description
16	R 26493 R	(-)	Bushing, oil pressure relief valve
17	R 26650 R	(-)	Pin, dowel (2 used)
18	AT 18101 T	(-)	Block, cylinder (T23401T) (contains key nos. 1, 3, 4, 7, 8, 16, 17, 19, 20, 21, 38) (gasoline)
	AT 18105 T	(-)	Block, cylinder (T23404T) (contains key nos. 1, 3, 7, 8, 16, 17, 19, 20, 21, 38) (diesel)
19	AT 21226	(-)	Cap, main bearing, front and center with shims and set gauge (2 used) (gasoline)
	AT 21226	(-)	Cap, main bearing, front and center with shims and set gauge (3 used) (diesel)
20	T 20168 T	(-)	Washer, plain, special (6 used) (gasoline)
	T 20168 T	(-)	Washer, plain, special (8 used) (diesel)
21	T 23474 T	(-)	Screw, cap, special (6 used) (gasoline)
	T 23474 T	(-)	Screw, cap, special (8 used) (diesel)
22	T 22769 T	(-)	Gasket
23	T 22908 T	(-)	Pan, oil
24	19H 1765	(-)	Screw, cap, 3/8" x 1-3/4" (5 used)
25	19H 1801	(-)	Screw, cap, 3/8" x 2", front right side hole
26	T 13213 T	(-)	Washer, special, aluminum
27	M 1746 T	(-)	Plug, drain
28	T 20309 T	(-)	Screw, cap, special taper (2 used)
29	19H 1139	(-)	Screw, cap, 3/8" x 1-1/8" (11 used)
30	19H 1752	(-)	Screw, cap, 5/8" x 4" (2 used)
31	12H 294	(-)	Washer, lock, 5/8" (2 used)
32	19H 1732	(-)	Screw, cap, 3/8" x 1-1/4", rear right side hole
33	19H 1733	(-)	Screw, cap, 3/8" x 2-1/2" (2 used)
34	19H 2228	(-)	Screw, cap, 3/8" x 4" (2 used)
35	14H 826	(-)	Nut, hex. jam, 1/2"
36	T 24409	(-)	Nipple, dipstick
37	AT 21534	(-)	Dipstick
38	T 23435 T	(-)	Nipple, oil filter
39	T 19044 T	(-)	Filter, oil
40	T 20330 T	(-)	Sleeve
..	AT 21933	(-)	Short block assembly, complete with cylinder block assembly, crankshaft, camshaft, pistons, connecting rods, cylinder liners, and front plate (diesel)
..	AT 21934	(-)	Short block assembly, complete with cylinder block assembly, crankshaft, camshaft, pistons, connecting rods, cylinder liners, and front plate (gasoline)

OIL FILLER INLET



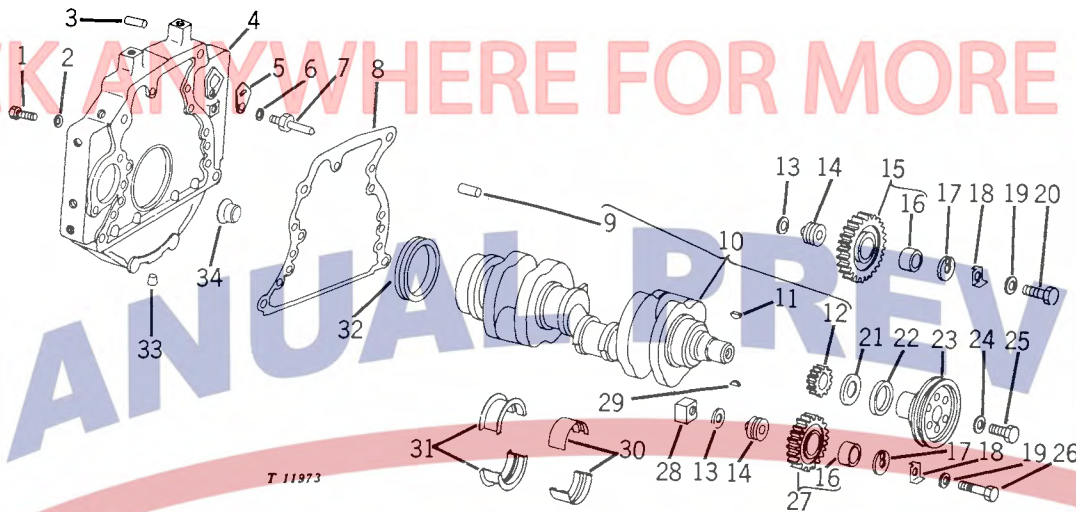
Key	Part No.	Serial No.	Description
1	T 20294 T	(-)	Cap
2	T 20328 T	(-)	Gasket
3	24H 1304	(-)	Washer, plain, 13/32" x 23/32" x .120" (2 used)
4	19H 1807	(-)	Screw, cap, 3/8" x 1-5/8"
5	19H 2128	(-)	Screw, cap, 3/8" x 3"
6	T 23614 T	(-)	Inlet, oil filler
7	T 20336 T	(-)	Gasket

CAMSHAFT, ROCKER ARMS, AND VALVES



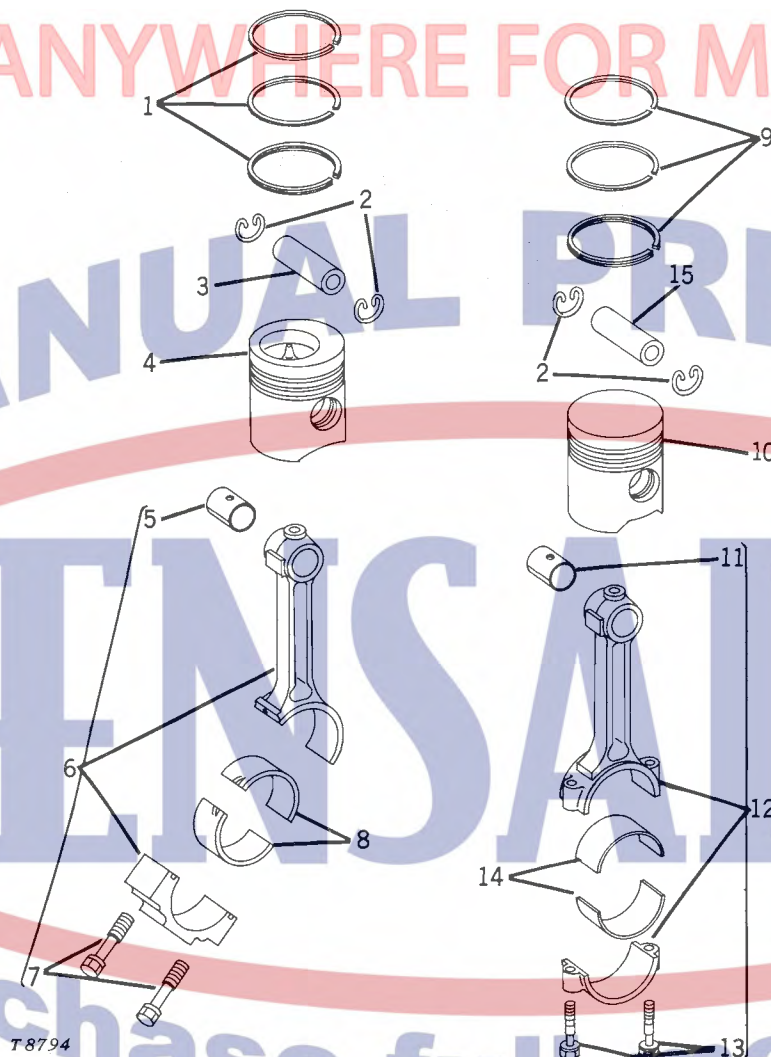
Key	Part No.	Serial No.	Description
1	T 23469 T	()	Plug (2 used)
2	T 23468 T	()	Shaft, rocker arm
3	T 20316 T	()	Washer, special bowed (2 used)
4	T 20314 T	()	Spring (2 used)
5	AT 18129 T	()	Arm, rocker, with adjusting screw (6 used)
	T 23521 T	()	Screw, special adjusting (6 used)
6	19H 1733	()	Screw, cap, 3/8" x 2-1/2" (3 used)
7	T 23594 T	()	Washer, plain, special (3 used)
8	T 20129 T	()	Cap, valve stem (6 used) (diesel)
9	T 20077 T	()	Lock, retainer (12 used)
10	T 20287 T	()	Rotator, exhaust valve (3 used) (gasoline)
	T 20176 T	()	Cap, exhaust valve (3 used) (diesel)
11	R 26125 R	()	Spring, valve (6 used)
12	T 20286 T	()	Valve, exhaust, standard stem (3 used) (gasoline)
	T 23543 T	()	Valve, exhaust, .003" oversize stem (3 used) (gasoline)
	T 23544 T	()	Valve, exhaust, .015" oversize stem (3 used) (gasoline)
	T 23545 T	()	Valve, exhaust, .030" oversize stem (3 used) (gasoline)
	T 20175 T	()	Valve, exhaust, standard stem (3 used) (diesel)
	T 23549 T	()	Valve, exhaust, .003" oversize stem (3 used) (diesel)
	T 23550 T	()	Valve, exhaust, .015" oversize stem (3 used) (diesel)
	T 23551 T	()	Valve, exhaust, .030" oversize stem (3 used) (diesel)
13	T 20297 T	()	Rod, push (6 used) (gasoline)
	T 20310 T	()	Rod, push (6 used) (diesel)
14	T 20073 T	()	Tappet (6 used)
15	T 20070 T	()	Gear, camshaft (48 teeth)
16	19H 1731	()	Screw, cap, 3/8" x 1" (2 used)
17	T 20072 T	()	Plate, thrust
18	26H 72	()	Key, Woodruff, 1/8" x 5/8"
19	T 20071 T	()	Shaft, tachometer drive
20	AT 18053 T	()	Camshaft (T20015T), with tachometer drive shaft
21	T 20304 T	()	Packing, tachometer shaft
22	T 23477 T	()	Valve, intake, standard stem (3 used) (gasoline)
	T 23540 T	()	Valve, intake, .003" oversize stem (3 used) (gasoline)
	T 23541 T	()	Valve, intake, .015" oversize stem (3 used) (gasoline)
	T 23542 T	()	Valve, intake, .030" oversize stem (3 used) (gasoline)
	T 20174 T	()	Valve, intake, standard stem (3 used) (diesel)
	T 23546 T	()	Valve, intake, .003" oversize stem (3 used) (diesel)
	T 23547 T	()	Valve, intake, .015" oversize stem (3 used) (diesel)
	T 23548 T	()	Valve, intake, .030" oversize stem (3 used) (diesel)
23	R 27976 R	()	Packing, "O" ring, intake valve (3 used) (gasoline)
24	T 20169 T	()	Cap, intake valve (3 used) (gasoline)
	T 20176 T	()	Cap, intake valve (3 used) (diesel)
25	T 20315 T	()	Support (3 used)

CRANKSHAFT AND FLYWHEEL HOUSING



Key	Part No.	Serial No.	Description
1	19H 1800	(-)	Screw, cap, 3/8" x 1-1/2" (8 used)
2	12H 304	(-)	Washer, lock, 3/8" (8 used)
3	C 1220 R	(-)	Pin, dowel (2 used)
4	T 22991 T	(-)	Housing, flywheel
5	T 20089 T	(-)	Cover, timing hole
6	12H 301	(-)	Washer, lock, 1/2"
7	T 20090 T	(-)	Screw, special
8	T 23596 T	(-)	Gasket
9	C 1220 R	(-)	Pin, dowel
10	AT 21072	(-)	Crankshaft (T23484T), with gear, key, and dowel pin (gasoline)
	AT 18031 T	(-)	Crankshaft (T23479T), with gear, key, and dowel pin (diesel)
11	26H 72	(-)	Key, Woodruff, 1/8" x 5/8"
12	T 20094 T	(-)	Gear (24 teeth)
13	T 20037 T	(-)	Washer, special inner thrust (2 used)
14	T 20036 T	(-)	Shaft, idler gear (2 used)
15	AT 18009 T	(-)	Gear (T20029T), crankshaft upper idler, with bushing (55 teeth)
16	T 20034 T	(-)	Bushing (2 used)
17	T 20038 T	(-)	Washer, special outer thrust (2 used)
18	T 20291 T	(-)	Plate, lock (2 used)
19	T 20290 T	(-)	Washer, plain, special (2 used)
20	19H 1805	(-)	Screw, cap, 1/2" x 2-1/4"
21	T 20046 T	(-)	Slinger
22	AT 21608	(-)	Seal, oil, front
23	T 24441	(-)	Pulley
24	T 20217 T	(-)	Washer, plain, special
25	19H 1721	(-)	Screw, cap, 1/2" x 1-1/2"
26	19H 1930	(-)	Screw, cap, 1/2" x 2-1/2"
27	AT 18039 T	(-)	Gear (T20135T), crankshaft, lower idler, with bushing (45 teeth)
28	T 20136 T	(-)	Adapter, lower idler gear oil tube
29	T 23604 T	(-)	Key, special
30	AT 21140	(-)	Bearing, main, standard, plain (2 halves) (2 used) (gasoline)
	AT 21140	(-)	Bearing, main, standard, plain (2 halves) (3 used) (diesel)
	AT 21108	(-)	Bearing, main, .002" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21108	(-)	Bearing, main, .002" undersize, plain (2 halves) (3 used) (diesel)
	AT 21109	(-)	Bearing, main, .003" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21109	(-)	Bearing, main, .003" undersize, plain (2 halves) (3 used) (diesel)
	AT 21110	(-)	Bearing, main, .010" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21110	(-)	Bearing, main, .010" undersize, plain (2 halves) (3 used) (diesel)
	AT 21111	(-)	Bearing, main, .012" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21111	(-)	Bearing, main, .012" undersize, plain (2 halves) (3 used) (diesel)
	AT 21112	(-)	Bearing, main, .020" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21112	(-)	Bearing, main, .020" undersize, plain (2 halves) (3 used) (diesel)
	AT 21113	(-)	Bearing, main, .022" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21113	(-)	Bearing, main, .022" undersize, plain (2 halves) (3 used) (diesel)
	AT 21114	(-)	Bearing, main, .030" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21114	(-)	Bearing, main, .030" undersize, plain (2 halves) (3 used) (diesel)
	AT 21115	(-)	Bearing, main, .032" undersize, plain (2 halves) (2 used) (gasoline)
	AT 21115	(-)	Bearing, main, .032" undersize, plain (2 halves) (3 used) (diesel)

PISTONS AND CONNECTING RODS



Key	Part No.	Serial No.	Description
1	AT 18012 T	(-)	Rings, piston, standard (set of 3 rings) (3 sets used) (diesel)
2	M 67 T	(-)	Ring, snap (6 used) (packed 2 in a pkg.)
3	T 23482 T	(-)	Pin, piston (3 used) (diesel) (packed 2 in a pkg.)
4	T 23481 T	(-)	Piston, standard (3 used) (diesel)
5	T 23471 T	(-)	Bushing, connecting rod (3 used) (diesel)
6	AT 18005 T	(-)	Rod, connecting, with screws and bushing (3 used) (diesel)
7	T 19812 T	(-)	Screw, connecting rod (6 used) (diesel)
8	AT 21138	(-)	Bearing, connecting rod, standard (2 halves) (3 used) (diesel)
	AT 21122	(-)	Bearing, connecting rod, .002" undersize (2 halves) (3 used) (diesel)
	AT 21123	(-)	Bearing, connecting rod, .003" undersize (2 halves) (3 used) (diesel)
	AT 21124	(-)	Bearing, connecting rod, .010" undersize (2 halves) (3 used) (diesel)
	AT 21125	(-)	Bearing, connecting rod, .012" undersize (2 halves) (3 used) (diesel)
	AT 21126	(-)	Bearing, connecting rod, .020" undersize (2 halves) (3 used) (diesel)
	AT 21127	(-)	Bearing, connecting rod, .022" undersize (2 halves) (3 used) (diesel)
	AT 21128	(-)	Bearing, connecting rod, .030" undersize (2 halves) (3 used) (diesel)
	AT 21129	(-)	Bearing, connecting rod, .032" undersize (2 halves) (3 used) (diesel)
9	AT 18006 T	(-)	Rings, piston, standard (set of 3 rings) (3 sets used) (gasoline)
10	T 23504 T	(-)	Piston, standard (3 used) (gasoline)
11	T 526 T	(-)	Bushing, connecting rod (3 used) (gasoline)
12	AT 18147 T	(-)	Rod, connecting, with screws and bushing (3 used) (gasoline)
13	T 19173 T	(-)	Screw, connecting rod (6 used) (gasoline) (packed 2 in a pkg.)