

PERKINS



ENGINE: T4.236 Turbocharged Diesel
U027774M - U083371N

BORE: 3.877"	4 Cyl	Diesel	Notes: 3 Ring Piston, 1.500" Pin, 30° Intake Valve, Flg Liner w/Fire Dam, 6 Bolt Balancer
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APPLICATION: Compactors: Cat CP433B (LJ33590); Forklifts: Champ Unknown (LJ70170 After U080794N);
Industrial Engines: T4.236 (LJ18999, 33475, 33476, 33539, 33590, 33818, 33854, 70128, 70332);
Tractors: MF 698T (LJ31131);
Stump Grinders: Vermeer Unknown (LJ33854); Wood Chippers: Vermeer Unknown (LJ30848, LJ33818);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974222	In-Frame Kit				I
	1	975222	Out-of-Frame Kit			O	
	1	976222	Major Kit		M		
	1	977222	Premium Kit (979142 Valve Train Kit Included)	P			
	4	171134	Sleeve & Piston Asb (Piston Stamped "KS") (1)	P	M	O	I
	4	171227	Piston Assembly (Piston Stamped "KS") (1) (2)				
	4	171274	Piston Assembly (Piston Stamped "ML") (1) (3)				
	4	171128	STD Cylinder Liner (Finished / Fire Dam / 4.063" OD) (4)				
	4	171214	STD Cylinder Liner (Semi-Finished / Fire Dam / 4.065" OD)				
	4	171131	Service Liner (Finished / No Fire Dam / 4.103" OD) (5)				
	4	171361	Service Liner (Semi-Finished / No Fire Dam / 4.105" OD) (6)				
	4	171468	005 Liner Shim				
	4	171272	Piston Ring Set (1-1/8K 1-3/32 1-3/16)				
	4	271261	STD Rod Bearing	P	M	O	I
	4	271262	.010 Rod Bearing				
	4	271263	.020 Rod Bearing				
	4	271264	.030 Rod Bearing				
	1	271161	STD Main Set, wo/Thrust Washers	P	M	O	I
	1	271162	.010 Main Set, wo/Thrust Washers				
	1	271163	.020 Main Set, wo/Thrust Washers				
	1	271164	.030 Main Set, wo/Thrust Washers				
	1	271119	STD Thrust Washer Set	P	M	O	I
	1	271125	.007 Thrust Washer Set				
	1	271126	.010 Thrust Washer Set				
	1	371321	Head Gasket Set	P	M	O	I
	1	371132	Head Gasket				
	1	371117	Valve Cover Gasket				
	8	371143	Valve Seal (Umbrella)				
	8	371192	Valve Seal (O-Ring)				
	4	371318	Nozzle Dust Seal Kit "Not In Sets Or Kits"				
	1	371292	Lower Gasket Set wo/Seals	P	M	O	
	1	371149	Timing Cover Gasket				
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"	P	M	O	
	1	371167	Pan Gasket Set, Cast Pan (Includes 6 Oil Flange Gaskets)				I
	1	371282	Pan Gasket, Steel Pan				I
	1	371146	Front Crank Seal (Viton Lip Type) (7)	P	M	O	
	1	371145	Rear Crank Seal (Viton Lip Type) (8)	P	M	O	
	4	271135	Pin Bushing (1.500" Pin)	P	M		
	1	271127	Cam Bearing (Finished ID)	P	M		
	8	771151	Connecting Rod Bolt	P	M		
	8	771148	Connecting Rod Nut	P	M		
	1	771293	Head Bolt Kit (Ribbed Blocks / .500" CB)				

(1)ML&KS pistons are different weights, replace in sets, **DO NOT MIX** (2)Untopped KS Piston-171415 (3)Untopped ML Piston-171416

(4)OS Finished Liner: .010 - 171194 / .040 - 171359

(5).010 Oversize - 171362

(6).020 Oversize - 171363

(7)Front Seal Wear Sleeve - 301115

(8)Lip Seal Housing Gasket - 371187 / Rear Crank Wear Sleeve - 301143

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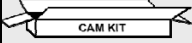
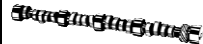
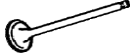
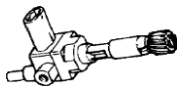
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979522	Camshaft Kit					C
	1	979142	Valve Train Kit				V	
	1	571177	Camshaft "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217) (10)					
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (45° / Bi-Metal / Chromed Stem)				V	
	4	471135	STD Intake Valve (30° / Alloy / Chromed Stem)				V	
	4	471132	Exhaust Guide				V	
	4	471131	Intake Guide				V	
	8	471134	Outer Valve Spring (8 Coils / 2.5" Free Length)				V	
	8	471133	Inner Valve Spring (9 Coils / 2.0" Free Length)				V	
	8	471229	Spring Seat (Stepped/.640" ID)				V	
	8	471222	Spring Retainer					
	16	471146	Keeper (Half)				V	
	4	471111	Exhaust Seat (1.248 x 1.681 x .374 Stepped Top)					
	4	471224	LH Rocker Arm (Adj Screw & Lock Nut Not Included) (11)					
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (11)					
	1	471227	Rocker Arm Shaft (12) "Includes 471176 Plugs"					
	1	571165	Cam Gear: Except Below (Steel / 56 Teeth)					
	1	571112	Cam Gear: LJ31131 (Cast / 56 Teeth)					
	1	571113	Crank Gear: Except Below (28 Teeth)					
	1	571166	Crank Gear: LJ70170 (Steel / 28 Teeth)					
	1	571163	Idler Gear (Steel / 63 Teeth / Bushings) (13)					
	1	571145	Idler Gear Hub					
	8	571117	Push Rod					
	1	671122	Oil Pump					
	4	671157	Piston Cooling Jet "Check Valve - 671158"					
	1	671149	Oil Cooler					
	1	771299	Balancer Assembly, Engines w/LH Oil Filter (Incls Oil Pump)					
	4	771171	Balancer Weight Bushings					
	1	771296	Balancer/Pump Drive Kit (Gear/Shaft Asb, Drv Gear, 2-Brgs)					
	1	771297	Balancer Idler Gear "Needle Bearing Assembly - 771298"					
	1	771181	Crank Kit (Spline Nose / Lip Seal)					
	4	771194	Connecting Rod (1.500" Pin)					
	1	771317	Cylinder Head Assembly (Includes Valves & Springs)					
	1	771159	Rear Block Bridge Piece					
	1	771286	Expansion Plug Kit					
	1	871138	Thermostat (2.125" / Bypass)					
	1	871173	Water Pump wo/Pulley: Except Below					
	1	871229	Water Pump wo/Pulley: LJ31131, LJ70128					
	1	871228	Block Heater (1.250")					

(10).026" Oversize - 271239 (1.750 X 2.873 X .243 Recessed Face)

(11)Adj Screw - 471226 / Lock Nut - 571139

(12)Snap Ring - 471228

(13)Includes 2 Bushings - 571144

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