

PERKINS



ENGINE: T4.236 Turbocharged Diesel
U027774M - U083371N

BORE: 3.877"	4 Cyl	Diesel	Notes: 3 Ring Piston, 1.500" Pin, 30° Intake Valves, Flg Liner w/Fire Dam, No Balancer
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APPLICATION: Backhoes: JCB 4CX (LJ50117); Excavators: Cat Eder 815 (LJ80270); JCB (LJ50079); 811 (LJ50211);
Forklifts: Champ Unknown (LJ70170 Thru U080794N); JCB 410 (LJ50182); 410M (LJ50201);
Gensets: (LJ33478, LJ50418, LJ70130, LJ70151, LJ70155); Industrial Engine: T4.236 (LJ33603, LJ70168);
Telehandlers: Gradall 534B (LJ70167); JCB 520 (LJ50183); Wheel Loaders: JCB 415 (LJ50198);

	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

PK-236-45

5/5/2008

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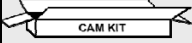
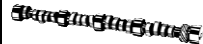
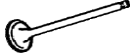
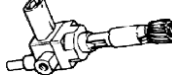
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979522	Camshaft Kit					C
	1	979142	Valve Train Kit				V	
	1	571177	Camshaft "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217) (10)					
	8	571123	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 (13) (Steel / 56 Teeth)					
	1	571112	Cam Gear: (13) (Cast / 56 Teeth)					
	1	571113	Crank Gear: Except Below (28 Teeth)					
	1	571163	Idler Gear (Steel / 63 Teeth / Bushings) (14)					
	1	571145	Idler Gear Hub					
	8	571117	Push Rod					
	1	671123	Oil Pump					
	1	671134	Oil Pump Idler Gear "Idler Gear Bush - 571124"					
	4	671157	Piston Cooling Jet					
	4	671158	Piston Cooling Check Valve					
	1	671149	Oil Cooler					
	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 (15)					
	1	871229	Water Pump wo/Pulley: (15)					
	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)LJ33478, LJ50117, LJ50183, LJ50198, LJ50418, LJ70130, LJ70151, LJ70155, LJ80270

(14)Includes 2 Bushings - 571144

(15)LJ50117, LJ50182, LD50183, LJ50198, LJ50201, LJ70130, LJ80270

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