

# PERKINS














ENGINE: 4.236 Diesel  
After U106654N

BORE: 3.877" | 4 Cyl | Diesel | Notes: 5 Ring Pistons, 2.769" CD, Flanged Liners w/Fire Dam, No Balancer

APPLICATION: Backhoes: JCB; Compactors: Hyster; Compressors: Leroi, Sullair; Industrial Engines: 4.236  
Forklifts: Cat, Champ, Clark, Eagle Picher, Hyster, JCB, Manitou; Gensets: (LD30170,LD35008,LD70131)  
Skid Loaders: Scat Trak; Sweepers: Johnston; Telehandlers: Cat, Gradall; JCB 520, 525B; SkyTrak  
Tractors: Versatile 150; Tugs: Clark CTAD20-50; Welders: Hobart, Lincoln; Wheel Loaders: JCB 410

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QTY		ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
		1	974157 In-Frame Kit					I
		1	975157 Out-of-Frame Kit				O	
		1	976157 Major Kit			M		
		1	977157 Premium Kit, Thru 3/4/94 (979139 Valve Train Kit Included)		P			
		4	171137 Sleeve & Piston Assembly (5 Ring / Flanged / No Fire Dam)	P	M	O	I	
		4	171224 Piston Assembly (5 Ring / 2.769" Comp Dist / Topped) (1)					
		4	171131 Liner (Finished / No Fire Dam / 4.103" OD) (3)					
		4	171361 Liner (Semi-Finished / No Fire Dam / 4.105" OD) (4)					
		4	171468 005 Liner Shim					
		4	171263 Piston Ring Set (3-3/32 2-1/4)					
		4	271151 STD Rod Bearing	P	M	O	I	
		4	271152 .010 Rod Bearing					
		4	271153 .020 Rod Bearing					
		4	271154 .030 Rod Bearing "Additional Sizes (5)"					
		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 "Additional Sizes (6)"					
		1	271119 STD Thrust Washer Set	P	M	O	I	
		1	271125 .007 Thrust Washer Set					
		1	271126 .010 Thrust Washer Set					
		1	371115 Head Gasket Set	P	M	O	I	
		1	371116 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		
		1	771159 Rear Block Bridge Piece					
		4	271176 Pin Bushing (1.375" Pin)	P	M			
		1	271127 Cam Bearing (Finished ID)	P	M			
		4	771154 Connecting Rod (1.375" Pin)					
		8	771151 Connecting Rod Bolt	P	M			
		8	771148 Connecting Rod Nut	P	M			
		1	771293 Head Bolt Kit (Ribbed Blocks / .500" CB)					

(1)Untopped Piston Assembly - 171473

(3)Oversize Finished Liner: .010 - 171362

(4)Oversize Liner: .020 - 171363

(5).040 - 271155 / .050 - 271156 / .060 - 271157

(6).040 - 271165 / .050 - 271166 / .060 - 271167

(7)Front Seal Wear Sleeve - 301115

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











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	1	979518	Camshaft Kit: Except (9)						C
	1	979519	Camshaft Kit: (9)						C
	1	979139	Valve Train Kit, Thru 3/4/94 (Long Springs)				V		
	1	979141	Valve Train Kit, After 3/4/94 (Short Springs)				V		
	1	571169	Camshaft: Except Below "Cam Bolt Lock Plate - 571162"						C
	1	571176	Camshaft: (9)						C
	8	571123	Tappet						C
	4	471123	STD Exhaust Valve (45° / Bi-Metal)			V		V	
	4	471128	STD Intake Valve (45° / Alloy / Chromed Stem)			V		V	
	4	471132	Exhaust Guide			V		V	
	4	471131	Intake Guide			V		V	
	8	471134	Outer Valve Spring, Thru 3/4/94 (8 Coils / 2.5" Free Length)					V	
	8	471133	Inner Valve Spring, Thru 3/4/94 (9 Coils / 2.0" Free Length)					V	
	8	471144	Outer Valve Spring, After 3/4/94 (8 Coils / 1.8" Free Length)			V			
	8	471143	Inner Valve Spring, After 3/4/94 (9 Coils / 1.7" Free Length)			V			
	8	471229	Spring Seat (Stepped/.640" ID)			V			
	16	471146	Keeper (Half)			V		V	
	4	471111	Exhaust Seat (1.248 x 1.681 x .374 Stepped Top)						
	4	471113	Intake Seat (1.594 x 2.020 x .281)						
	4	471224	LH Rocker Arm (Adj Screw & Lock Nut Not Included) (10)						
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (10)						
	1	471227	Rocker Arm Shaft (11) "Includes 471176 Plugs"						
	1	571172	Cam Gear: Except (12) & LD50221 (Cast / 56 Teeth)						
	1	571171	Cam Gear: (12) & LD50221 (Steel / 56 Teeth)						
	1	571113	Crank Gear: Except (12) (28 Teeth)						
	1	571166	Crank Gear: (12) (Steel / 28 Teeth)						
	1	571111	Idler Gear: Except (12) & (15) (Cast / 63 Teeth) (13)						
	1	571163	Idler Gear: (15) (Steel / 63 Teeth / Bushings) (13)						
	1	571167	Idler Gear: (12) (Steel / 63 Teeth / Needle Bearings) (14)						
	8	571117	Push Rod						
	1	671112	Oil Pump						
	1	671134	Oil Pump Idler Gear "Idler Gear Bush - 571124"						
	1	671148	Relief Valve Assembly (LH Oil Filter Only)						
	1	771132	Crank Kit (Spline Nose / Lip Seal)						
	1	771264	Cylinder Head Assembly (Includes Valves & Springs)						
	1	771286	Expansion Plug Kit: Thru U280718S (19 Head&Block Plugs)						
	1	771294	Expansion Plug Kit: After U280718S (20 Head&Block Plugs)						
	1	871147	Water Pump wo/Pulley: Except Below						
	1	871173	Water Pump wo/Pulley: LD30826,30828,50270,50502,70195						
	1	871152	Fuel Pump: Except (16) (4 Bolt / Both Ports Toward Block)						
	1	871226	Fuel Pump: (16) (4 Bolt / One Port Toward Block)						

(9)LD20163,22602,30170,33781,35008,50096,50103,50105,50143,50145,50204,50221,50222 (10)Adj Screw 471226 / Nut - 571139  
 (11)Snap Ring-471228 (12)LD20562,20977,21737,22242,22634,22822,70117 (13)Includes 2 Bush-571144 (14)Needle Brgs-571168  
 (15)LD33671 After 06/90; LD33781 After 09/91; LD22602, 22644, 22763, 30826, 30828, 50221  
 (15)LD70047, 70093, 70101, 70111, 70115, 70118, 70119, 70121, 70147, 70192, 70195, 70197, 70222, 80167  
 (16)LD22602, 30170, 30826, 30828, 33671, 33672, 33781, 35008, 50096, 50204, 50222, 50270, 50502, 70197

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