

# PERKINS



ENGINE: 4.236 Diesel  
After U106654N

BORE: 3.877" | 4 Cyl | Diesel | Notes: 5 Ring Pistons, 2.769" CD, Flanged Liners wo/Fire Dam, 4 Bolt Balancer

APPLICATION: Forklifts: MF 6500H, 6800H;  
Telehandlers: MF 24, 25 (LD31134, LD31163, LD31179);  
Wheel Tractors: MF 50E (LD31132, LD31163, LD31178, LD31179); 50H (LD31134, LD31163, LD31179);

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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 (Offset Lug)		P	M	O I
		1	271125 .007 Thrust Washer Set (Offset Lug)				
		1	271126 .010 Thrust Washer Set (Offset Lug)				
		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	
		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

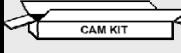







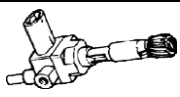

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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	979519	Camshaft Kit				C
	1	979139	Valve Train Kit, Thru 3/4/94 (Long Springs)			V	
	1	979141	Valve Train Kit, After 3/4/94 (Short Springs)			V	
	1	571176	Camshaft "Cam Bolt Lock Plate - 571162"				C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217)				
	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)				
	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: LD31178 (Cast / 56 Teeth)				
	1	571171	Cam Gear: Except LD31178 (Steel / 56 Teeth)				
	1	571113	Crank Gear (28 Teeth)				
	1	571111	Idler Gear: LD31178 (Cast / 63 Teeth) (12)				
	1	571163	Idler Gear: Except LD31178 (Steel / 63T / Bushings) (12)				
	8	571117	Push Rod				
	1	671142	Oil Pump Kit (Gears,Shaft,Plate,Valve,Spring,Cap,Gkts)				
	1	671143	Oil Pump Body, w/LH Oil Filter (Cast Gear Housing)				
	1	671146	Oil Pump Inlet Strainer				
	1	771132	Crank Kit (Spline Nose / Lip Seal)				
	4	771154	Connecting Rod (1.375" Pin)				
	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	771164	Balancer Assembly, Engines w/LH Oil Filter (Incls Oil Pump)				
	1	771165	Balancer Kit (3-Shafts 2-Gears 2-Keys 4-Bearings)				
	2	771197	Balancer Gear (3 Bolt / 1.375 ID / 30T)				
	1	871162	Thermostat, Late (2.125")				
	1	871147	Water Pump wo/Pulley				
	1	871228	Block Heater (1.250")				
	1	871182	Manifold Heater Plug (Blade Terminal) "Screw Type-871174"				
	1	871152	Fuel Pump: Forklifts (4 Bolt / Both Ports Toward Block)				
	1	871226	Fuel Pump: Exc Forklifts (4 Bolt / One Port Toward Block)				

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(10)Adjusting Screw 471226 / Lock Nut - 571139

(11)Snap Ring-471228

(12)Includes 2 Bush-571144