

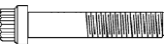
PERKINS



ENGINE: 4.236 Diesel
236U147150L - U106654N

BORE: 3.877"	4 Cyl	Diesel	Notes: 5 Ring Pistons, 2.769" CD, Flanged Liners w/Fire Dam, Ind Block, No Balancer
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APPLICATION: Backhoes: Allis Chalmers 715, 714B, 715B (LD21826,LD22682); Ind Engines: 4.236 (LD30826,LD90012);
Forklifts: Allis Chalmers 705C, 706C, 708C (LD22682); Cat, Clark; Sweepers: Johnston 400 (LD22818);
Telehandlers: Gradall 532-3S (LD70197); Welders: Hobart 300 Amp, 400 Amp (LD22763, LD70047);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	974133	In-Frame Kit					I
	1	975133	Out-of-Frame Kit				O	
	1	976133	Major Kit			M		
	1	977133	Premium Kit (979138 Valve Train Kit Included)			P		
	4	171115	Sleeve & Piston Assembly (5 Ring / Flanged w/Fire Dam)		P	M	O	I
	4	171224	Piston Assembly (5 Ring / 2.769" Comp Dist / Topped) (1)		P			
	4	171128	STD Cylinder Liner (Finished / Fire Dam / 4.063" OD) (2)					
	4	171214	STD Cylinder Liner (Semi-Finished / Fire Dam / 4.065" OD)					
	4	171131	Service Liner (Finished / No Fire Dam / 4.103" OD) (3)					
	4	171361	Service Liner (Semi-Finished / No Fire Dam / 4.105" OD) (4)					
	4	171468	005 Liner Shim (Fits Service Liners Without Fire Dam)					
	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, After U778517H (O-Ring)					
	4	371239	Nozzle Dust Seal, Thru 712248G "Not In Gkt Sets Or Kits"					
	4	371318	Nozzle Dust Seal Kit, After 712248G "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	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	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	771282	Head Stud/Bolt & Nut Kit, Early (2 Studs / 20 Bolts)					
	1	771292	Head Bolt Kit, Thru U027630M (22 Bolts / .125" Block CB)					
	1	771293	Head Bolt Kit, After U027630M (Ribbed Blocks / .500" CB)					

(1)Untopped Piston Assembly - 171473 (2)OS Finished Liner: .010 - 171194 / .040 - 171359 (3)OS Finished Liner: .010 - 171362
(4)OS 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

PK-236-6

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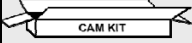
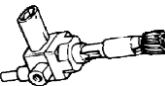
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Telehandlers: Gradall 532-3S (LD70197); Welders: Hobart 300 Amp, 400 Amp (LD22763, LD70047);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	979517	Camshaft Kit: Except (10)				C
	1	979516	Camshaft Kit: (10)				C
	1	979137	Valve Train Kit		V		
	1	979138	Valve Train Kit, w/Guides		V		
	1	571114	Camshaft: Except (10) "Cam Bolt Lock Plate - 571162"				C
	1	571122	Camshaft: (10) "Camshaft Thrust Washer - 271249"				C
	8	571123	Tappet				C
	4	471123	STD Exhaust Valve (11)		V	V	
	4	471119	STD Intake Valve (12)		V	V	
	4	471132	Exhaust Guide: After U040235M or Service Repair		V		
	4	471131	Intake Guide: After U040235M or Service Repair		V		
	8	471134	Outer Valve Spring (8 Coils / 2.500" Free Length)		V	V	
	8	471133	Inner Valve Spring (9 Coils / 2.000" Free Length)		V	V	
	8	471219	Spring Seat, Early Integral Guides (Flat / .847" ID)				
	8	471229	Spring Seat, Late Integral/Service Guides (Stepped/.640" ID)				
	8	471222	Spring Retainer				
	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) (13)				
	4	471225	RH Rocker Arm (Adj Screw & Lock Nut Not Included) (13)				
	1	471227	Rocker Arm Shaft (14) "Includes 471176 Plugs"				
	1	571112	Cam Gear: Except (15) (Cast / 56 Teeth)				
	1	571165	Cam Gear: (15) (Steel / 56 Teeth)				
	1	571113	Crank Gear: Except (15) (28 Teeth)				
	1	571166	Crank Gear: (15) (Steel / 28 Teeth)				
	1	571111	Idler Gear: Except (15) & (16) (Cast / 63 Teeth) (17)				
	1	571163	Idler Gear: (16) (Steel / 63 Teeth / Bushings) (17)				
	1	571167	Idler Gear: (15) (Steel / 63 Teeth) (18)				
	8	571117	Push Rod				
	1	671112	Oil Pump				
	1	671134	Oil Pump Idler Gear "Idler Gear Bush - 571124"				
	1	671148	Relief Valve Assembly (Engines w/LH Oil Filter Only)				
	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 (Includes 19 Plugs For Head & Block)				
	1	871147	Water Pump w/Pulley: Except LD30826, LD70195				
	1	871173	Water Pump w/Pulley: LD30826, LD70195				
	1	871228	Block Heater (1.250")				
	1	871182	Manifold Heater Plug (Blade Terminal) "Screw Type-871174"				
	1	871152	Fuel Pump: Except (19) (4 Bolt / Both Ports Toward Block)				
	1	871226	Fuel Pump: (19) (4 Bolt / One Port Toward Block)				

(10)LD21826, LD22682 (11)Oversizes: .003 - 471271 / .015 - 471272 / .030 - 471273

(12)Oversizes: .003 - 471267 / .015 - 471268 / .030 - 471269 (13)Adj Screw 471226 / Lock Nut - 571139 (14)Snap Ring - 471228

(15)LD21826, LD22822 (16)LD22644, LD22682, LD22763, LD30826, LD70047, LD70195, LD70197 (17)Includes 2 Bush - 571144

(18)Idler Gear Needle Bearings - 571168

(19)LD30826, LD70197

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