

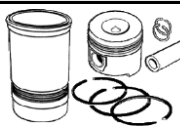
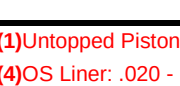
PERKINS



ENGINE: 4.236 Diesel
236U147150L - U106654N

BORE: 3.877"	4 Cyl	Diesel	Notes: 5 Ring Pistons, 2.769" CD, Straight Liners, Industrial Block, 4 Bolt Balancer
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APPLICATION: Forklifts: Clark C100, C120 (LD21359); CY60B, CY70B, CY80B (LD21386); Skid Loader: Bobcat 970, 974;
Windrowers: Hesston 6400, 6450, 6600, 6610, 6650 (LD22151, LD22420);
Windrowers: MF 885 (LD22580); New Holland 1100, 1116, 1495, 1496 (LD22580);

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974177	In-Frame Kit				I
	1	975177	Out-of-Frame Kit			O	
	1	976177	Major Kit		M		
	1	977177	Premium Kit (Valve Train Kit Included)	P			
	4	171348	Sleeve & Piston Assembly (5 Ring / Straight Liner)	P	M	O	I
	4	171224	Piston Assembly (5 Ring / 2.769" Comp Dist / Topped) (1)				
	4	171215	STD Cylinder Liner (Straight/Semi-Finished/4.0655" OD) (2)				
	4	171131	Flanged Service Liner (Finished / 4.103" OD) (3)				
	4	171361	Flanged Service Liner (Semi-Finished / 4.105" OD) (4)				
	4	171468	005 Liner Shim (Fits Flanged Service Liners wo/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 U712248G "Not In Gkt Sets Or Kits"				
	4	371318	Nozzle Dust Seal Kit, After U712248G "Not In Sets Or Kits"				
	1	371292	Lower Gasket Set wo/Seals	P	M	O	
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"	P	M	O	
	1	371167	Pan Gasket Set (Also 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	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	771312	Head Stud/Bolt & Nut Kit, LD21359 (4 Studs / 18 Bolts)				
	1	771311	Head Stud/Bolt & Nut Kit, LD21334 (3 Studs / 19 Bolts)				
	1	771282	Head Stud/Bolt & Nut Kit, Thru U874811J (2 Studs/20 Bolts)				
	1	771292	Head Bolt Kit, After U874811J (22 Bolts / .125" Block CB)				

(1)Untopped Piston Assembly - 171473 (2)OS Straight Liner: .005 - 171358 / .010 - 171216 (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)Wear Sleeve - 301115 (8)Lip Seal Housing Gasket - 371187 / Wear Sleeve - 301143

PK-236-10

1/24/2008

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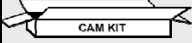
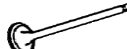
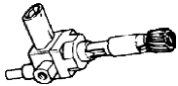
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	979517	Camshaft Kit				C
	1	979137	Valve Train Kit			V	
	1	979138	Valve Train Kit, w/Guides			V	
	1	571114	Cam "Cam Bolt Lock Plate-571162 / Thrust Washer-271249"				C
	8	571123	Tappet				C
	4	471123	STD Exhaust Valve (10)		V	V	
	4	471119	STD Intake Valve (11)		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) (12)		V	V	
	8	471219	Spring Seat, Early Integral Guides (Flat / .847" ID)				
	8	471229	Spring Seat, 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 (Adjusting Screw & Lock Nut Not Included)				
	4	471225	RH Rocker Arm (Adjusting Screw & Lock Nut Not Included)				
	8	471226	Adjusting Screw (13)				
	1	471227	Rocker Arm Shaft (14) "Includes 471176 Plugs"				
	1	571112	Cam Gear: Except LD21386 (Cast / 56 Teeth)				
	1	571165	Cam Gear: LD21386 (Steel / 56 Teeth)				
	1	571113	Crank Gear: Except LD21386 (28 Teeth)				
	1	571166	Crank Gear: LD21386 (Steel / 28 Teeth)				
	1	571111	Idler Gear: Exc Below (Cast / 63T) "Bushings - 571144"				
	1	571163	Idler Gear: LD70095 (Steel / 63 Teeth) "Bushings - 571144"				
	1	571167	Idler Gear: LD21386 (Steel / 63 Teeth) (15)				
	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 (Includes 19 Plugs For Head & Block)				
	1	771164	Balancer Assembly, Engines w/LH Oil Filter (Incls Oil Pump)				
	1	771287	Balancer Kit, Early (3-Shafts 2-Gears 2-Keys 4-Brgs) (17)				
	1	771165	Balancer Kit, Late (3-Shafts 2-Gears 2-Keys 4-Brgs) (18)				
	1	871147	Water Pump wo/Pulley: Except LD21359, LD21386				
	1	871216	Water Pump wo/Pulley: LD21359, LD21386				
	1	871152	Fuel Pump: Exc LD22580 (4 Bolt / Both Ports Toward Block)				
	1	871226	Fuel Pump: LD22580 (4 Bolt / One Port Toward Block)				

(10)Oversizes: .003 - 471271 / .015 - 471272 / .030 - 471273

(11)Oversizes: .003 - 471267 / .015 - 471268 / .030 - 471269

(12)Inner Springs Used On LD21334, LD22557, LD70095

(13)Lock Nut - 571139

(14)Rocker Arm Shaft Snap Ring - 471228

(15)Idler Gear Needle Bearing - 571168

(17)Frame w/Needle Brgs

(18)Frame w/Grooved Roller Brgs

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