

PERKINS



ENGINE: 4.236 Diesel
Thru 236U147149L

BORE: 3.877" 4 Cyl Diesel Notes: 5 Ring Pistons, 2.753" CD, Straight Liners, Industrial Block, 4 Bolt Balancer

APPLICATION: Forklifts: Clark C100, C120 (LD21359); CY60B, CY70B, CY80B (LD21386);
Tractors: Allis Chalmers 170 (LD20377, LD21211); Early 175 (LD20377, LD21211);
Skid Loaders: Bobcat 970, 974 (LD21334); Windrowers: Hesston 6400, 6450, 6600, 6610, 6650 (LD22151)

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	974143	In-Frame Kit			I	
	1	975143	Out-of-Frame Kit		O		
	4	171331	Sleeve & Piston Assembly (Straight Liner)		O	I	
	4	171197	STD Piston Assembly (5 Ring / 2.753" Comp Distance)				
	4	171471	.030 Piston Assembly (5 Ring / 2.753" Comp Distance)				
	4	171215	STD Cylinder Liner (Straight/Semi-Finished/4.0655" OD) (1)				
	4	171263	STD Piston Ring Set (3-3/32 2-1/4)				
	4	171472	.030 Piston Ring Set (3-3/32 2-1/4)				
	4	271151	STD Rod Bearing		O	I	
	4	271152	.010 Rod Bearing				
	4	271153	.020 Rod Bearing				
	4	271154	.030 Rod Bearing "Additional Sizes (4)"				
	1	271161	STD Main Set, wo/Thrust Washers		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 (5)"				
	1	271119	STD Thrust Washer Set (Offset Lug)		O	I	
	1	271125	.007 Thrust Washer Set (Offset Lug)				
	1	271126	.010 Thrust Washer Set (Offset Lug)				
	1	371115	Head Gasket Set		O	I	
	1	371116	Head Gasket				
	1	371117	Valve Cover Gasket				
	8	371143	Valve Seal				
	4	371239	Nozzle Dust Seal "Not In Gasket Sets Or Kits"				
	1	371292	Lower Gasket Set wo/Seals		O		
	1	371149	Timing Cover Gasket				
	1	371235	Fuel Line Seal Kit (23 Seals & Washers) "Not In Gkt Sets"		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) (6)		O		
	1	371161	Rear Crank Seal Kit, Thru 236U136318 (Rope Type) (7)		O		
	1	371186	Rear Seal & Housing Kit, Thru 236U136318 (Rope Type) (7)				
	1	371145	Rear Crank Seal, After 236U136318 (Viton Lip Type) (8)		O		
	1	771159	Rear Block Bridge Piece				
	4	271176	Pin Bushing (1.375" Pin)				
	1	271127	Cam Bearing (Finished ID)				
	8	771151	Connecting Rod Bolt				
	8	771148	Connecting Rod Nut				
	1	771291	Head Stud & Nut Kit, Early (22 Studs & Nuts)				
	1	771282	Head Bolt/Stud & Nut Kit, Late (2 Studs & Nuts/20 Bolts)				
	1	771311	Head Stud/Bolt & Nut Kit, LD21334 (3 Studs / 19 Bolts)				
	1	771312	Head Stud/Bolt & Nut Kit, LD21359 (4 Studs / 18 Bolts)				

(1) Oversize Liners: .005-171358 / .010-171216 Finished Flanged Service Liner-171131 Semi-Finished Flanged Service Liner-171361

(4) Rod Bearings: .040 - 271155 / .050 - 271156 / .060 - 271157 (5) Main Bearings: .040 - 271165 / .050 - 271166 / .060 - 271167

(6) Wear Sleeve - 301115 (7) Rope Seal Housing Gasket - 371288 (8) Lip Seal Housing Gasket - 371187 / Wear Sleeve - 301143

PK-236-M

1/20/2008

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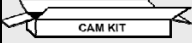
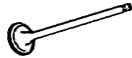
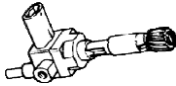
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979517	Camshaft Kit					C
	1	979137	Valve Train Kit				V	
	1	979138	Valve Train Kit, w/Guides				V	
	1	571114	Cam "Cam Bolt Lock Plate-571162 / Thrust Washer-271249"					C
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (10)		V		V	
	4	471119	STD Intake Valve (11)		V		V	
	4	471132	Exhaust Guide: Service Repair		V			
	4	471131	Intake Guide: 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, Integral Guides "With Service Guides - 471229"					
	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 (Cast / 56 Teeth)					
	1	571165	Cam Gear: LD21386 (Steel / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571166	Crank Gear: LD21386 (Steel / 28 Teeth)					
	1	571111	Idler Gear (Cast / 63 Teeth) "Includes 2-571144 Bushings"					
	1	571167	Idler Gear: LD21386 (Steel / 63 Teeth) "Needle Brg - 571168"					
	8	571117	Push Rod					
	1	671142	Oil Pump Kit (Gears, Shaft, Plate, Valve, Spring, Cap, Gkts) (15)					
	1	671143	Oil Pump Body (Cast Gear Housing / LH Oil Filter)					
	1	671152	Oil Pump Body (Cast Gear Housing / RH Oil Filter)					
	1	671146	Oil Pump Inlet Strainer					
	1	771129	Crank Kit, Thru 236U136318 (Spline Nose / Rope Seal)					
	1	771132	Crank Kit, After 236U136318 (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	771288	Balancer Kit, Early (3-Shafts 2-Gears 2-Keys 1-Plate) (16)					
	1	771287	Balancer Kit, Late (3-Shafts 2-Gears 2-Keys 4-Brgs) (17)					
	1	771165	Balancer Kit, Service Balancer (Shafts, Gears, Brgs) (18)					
	1	871147	Water Pump wo/Pulley: Except LD21359, LD21386					
	1	871216	Water Pump wo/Pulley: LD21359, LD21386					
	1	871174	Manifold Heater Plug (Screw Type Terminal)					

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

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

(12) Inner Springs Used On LD21334 Only

(13) Lock Nut - 571139

(14) Rocker Arm Shaft Snap Ring - 471228

(15) Supply 771166 If Drive Spline Is .422" OD (16) Frame w/Bushings (17) Frame w/Needle Brgs (18) Frame w/Grooved Roller Brgs

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