

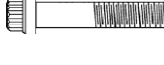
PERKINS



ENGINE: A4.236 Diesel
236UA109215L - U106654N

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

APPLICATION: Backhoes: MF 60; Forklifts: MF 6500; Telehandlers: MF 24;
Tractors: MF 174-4S, 184-4, 265, 270, 274-4, 670; Late 255;
Wheel Tractors: MF 50C, 50D, 50E, 50F;

	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 (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)					
	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	371167	Pan Gasket Set (Also Includes 6 Oil Flange Gaskets)				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 (22 Bolts / .125" Block 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)Wear Sleeve - 301115 (8)Lip Seal Housing Gasket - 371187 / Wear Sleeve - 301143

PK-236-1

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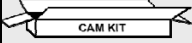
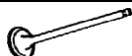
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	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	979516	Camshaft Kit					C
	1	979137	Valve Train Kit			V		
	1	979138	Valve Train Kit, w/Guides			V		
	1	571122	Camshaft (10) "Cam Bolt Lock Plate - 571162"					C
	1	271249	Camshaft Thrust Washer (1.750 X 2.873 X .217)					
	8	571123	Tappet					C
	4	471123	STD Exhaust Valve (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) (10)		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 (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 MF24 (Cast / 56 Teeth)					
	1	571113	Crank Gear (28 Teeth)					
	1	571111	Idler Gear: Except MF24 (Cast / 63T) "Incls 2-571144 Bush"					
	1	571145	Idler Gear Hub					
	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)					
	2	771197	Balancer Gear, Late (3 Bolt / 1.375 ID / 30T)					
	1	871137	Thermostat (2.750") "For Late 2.125 OD Stat Use 871162"					
	1	871147	Water Pump w/Pulley					
	1	871182	Manifold Heater Plug (Blade Terminal) "Screw Type-871174"					
	1	871152	Fuel Pump: 24, 50C, 50D, 50F, 174-4S, 270, 670 (4 Bolt)					
	1	871226	Fuel Pump: Except Above (4 Bolt / One Port Toward Block)					

(10)Inner Springs Used w/571122 Service Cam Upgrade

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

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

(13)Lock Nut - 571139

(14)Rocker Arm Shaft Snap Ring - 471228

(17)Frame w/Needle Brgs Thru 236UA126337L (18)Frame w/Grooved Roller Brgs After 236UA126337L

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