

DAVID BROWN



ENGINE: AD4/49

BORE: 100 MM 4 Cyl Diesel NOTES: Dry Liners, 2.626" Piston Compression Distance

APPLICATION: Tractors: 990 Case After # 850000;

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT				
	1	924222	STD In-Frame Kit					I
	1	924223	.020 In-Frame Kit					I
	1	924224	.040 In-Frame Kit					I
	1	925222	STD Out-of-Frame Kit		O			
	1	925223	.020 Out-of-Frame Kit		O			
	1	925224	.040 Out-of-Frame Kit		O			
	4	121339	STD Piston Kit (Includes Rings)			O		I
	4	121341	.020 Piston Kit (Includes Rings)			O		I
	4	121342	.030 Piston Kit (Includes Rings)					
	4	121343	.040 Piston Kit (Includes Rings)		O		I	
	4	121324	Cylinder Liner (105 MM OD / Unfinished ID)					
	4	121329	STD Deck Seal Ring, Thru ESN E29419					
	4	121331	.020 Deck Seal Ring, Thru ESN E29419					
	4	121332	.040 Deck Seal Ring, Thru ESN E29419					
	4	121325	STD Piston Ring Set					
	4	121326	.020 Piston Ring Set					
	4	121327	.030 Piston Ring Set					
	4	121328	.040 Piston Ring Set					
	4	221251	STD Rod Bearing		O	O	O	I
	4	221252	.010 Rod Bearing					
	4	221253	.020 Rod Bearing					
	4	221254	.030 Rod Bearing					
	4	221255	.040 Rod Bearing					
	1	221256	STD Main Bearing Set, wo/Thrust Washers		O	O	O	I
	1	221257	.010 Main Bearing Set, wo/Thrust Washers					
	1	221258	.020 Main Bearing Set, wo/Thrust Washers					
	1	221259	.030 Main Bearing Set, wo/Thrust Washers					
	1	221261	.040 Main Bearing Set, wo/Thrust Washers					
	1	221248	STD Thrust Washer Set		O	O	O	I
	1	221262	.005 Thrust Washer Set					
	1	221263	.020 Thrust Washer Set					
	1	321325	Head Gasket Set		O	O	O	I
	1	321326	Head Gasket					
	1	321327	Valve Cover Gasket					
	1	321328	Lower Gasket Set w/Seals		O	O	O	
	1	321331	Sump Pan Gasket					I
	1	321329	Full Gasket Set w/Seals					
	2	321332	Tappet Cover Gasket					
	1	321121	Block to Main Frame Gasket Kit					
	1	321333	Front Crank Seal					
	1	321334	Front Crank Felt					
	1	301123	Front Wear Sleeve					
	1	321335	Rear Crank Seal Kit (Seals & Retainer Gaskets)					
	4	221264	Pin Bushing					
	8	721172	Rod Bolt					
	8	721173	Rod Nut					
	6	721184	Main Bearing Cap Lock Tab					
	1	721174	Head Bolt & Stud Kit, Late Engine(Incls Nuts & Washers)(1)					

(1)990 After ESN E36169

DB-195-C

4/1/2004

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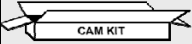
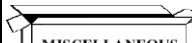
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ENGINE: AD4/49

BORE: 100 MM	4 Cyl	Diesel	NOTES: Dry Liners, 2.626" Piston Compression Distance
APPLICATION: Tractors: 990 Case After # 850000;			

	QTY	ITEM #	DESCRIPTION	LETTERED ITEMS INCLUDED IN KIT			
	1	929518	Camshaft Kit				C
	1	929143	Valve Train Kit			V	
	1	521177	Camshaft				C
	1	521179	Thrust Plate				
	8	521178	Tappet				C
	8	421248	STD Exhaust & Intake Valve (1.500" Hd Dia)			V	
	8	421249	.010 Exhaust & Intake Valve (1.500" Hd Dia)				
	8	421251	.020 Exhaust & Intake Valve (1.500" Hd Dia)				
	4	421252	Exhaust Valve Spring			V	
	4	421253	Intake Valve Spring			V	
	16	421257	Valve Keeper (Half)			V	
	4	421258	Exhaust Valve Seat				
	4	421259	Intake Valve Seat				
	4	421261	LH Rocker Arm				
	4	421262	RH Rocker Arm				
	8	421263	Rocker Arm Bushing				
	1	421264	Rocker Arm Shaft				
	1	521189	Cam Gear, Thru ESN E42771 (46 Teeth) (2)				
	1	521181	Cam Gear, After ESN E42771 (68 Teeth)				
	1	521191	Crank Gear, Thru ESN E42771 (23 Teeth) (2)				
	1	521182	Crank Gear, After ESN E42771 (34 Teeth)				
	1	521192	Idler Gear, Thru ESN E42771 (31 Teeth) (2)				
	1	521183	Idler Gear, After ESN E42771 (47 Teeth)				
	1	521184	Idler Gear Bushing				
	2	521198	.003 Idler Gear Bracket Shim (3)				
	1	521193	Injection Pump Drive Gear, Thru ESN E42771 (46 Teeth) (2)				
	1	521188	Injection Pump Drive Gear, After ESN E42771 (68 Teeth)				
	1	521195	Power Steering Pump Drive Gear, Thru ESN E42771(18 T)(2)				
	1	521187	Power Steering Pump Drive Gear, After ESN E42771 (28 T)				
	8	521186	Push Rod				
	1	621151	New Oil Pump, Thru ESN E43942				
	1	621152	New Oil Pump, After ESN E43942				
	1	621153	Oil Pump Housing				
	1	621154	Pump Drive Shaft, After ESN E43942 (Also Supply 621155)				
	1	621155	Oil Pump Gear Set (Drive Gear Has Internal Spline Upgrade)				
	1	621148	Oil Pump Gear Set (Drive Gear Has Key Slot)				
	1	621149	Oil Pump Screen				
	1	721188	Crankshaft				
	5	721125	Block Plug (1.750" Cup)				
	1	741118	Head Plug (1.250" Cup) "Use 721133 For 1" Welch Plug"				
	1	821158	Thermostat				
	1	821164	New Water Pump: 990 Thru TSN 866383 (Cast# K915326)				
	1	821159	New Water Pump: 990 After TSN 866383				
	1	821161	Block Heater (1.750" Cup Style Block)				
	1	821162	Fuel Transfer Pump				
	1	821163	Glow Plug (Manifold Preheater)				

(2)Can Upgrade to Fine Gear Set (3)For .010 Shim Use 521199 or .020 Shim Use 521211

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