

Technical Data

Model 123.190 (300 TD)

Engine

Chassis type	123.190
Engine type	617.912
Operation	four-stroke diesel engine with MB prechamber
Number of cylinders	5
Arrangement of cylinders	upright in line
Bore/Stroke mm (inches)	90.9/92.4 (3.57/3.64)
Total eff. piston displacement cm ³ (cu inches)	2998 (183.0)
Compression ratio	21:1
Firing order	1-2-4-5-3
Maximum engine rpm (no load)	5000±50
Engine output SAE net. bhp/rpm	77/4000
Maximum torque SAE net lb. ft. rpm	115/2400
Crankshaft bearings	6
Valve arrangement	overhead
Camshaft arrangement	O H C
Oil cooling	air-oil cooler, thermostatically controlled
Engine cooling	Water circulation pump, thermostat with by-pass line, viscous clutch and light alloy fan, finned tube radiator
Lubrication	Forced oil circulation by gear pump
Oil filter	Combination full flow and by-pass filter
Air filter	Air filter with paper cartridge

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Dimensions

Length overall	mm (ins.)	4848 (190.9)
Width	mm (ins.)	1786 (70.3)
Height, ready-to-drive	mm (ins.)	1470 (57.9)
Wheel base	mm (ins.)	2795 (110.0)
Track	front mm (ins.)	1488 (58.6)
	rear mm (ins.)	1453 (57.2)
Wheel lock	inside approx. deg.	43
	outside approx. deg.	33
Turning circle – min. dia. m (ft)		11.29 (37.0)

Weights

Vehicle curb weight	kg. (lbs.)	1715 (3780)
Gross vehicle weight (GVWR)	kg. (lbs.)	2175 (4790)
Gross axle weight rating (GAWR)	kg. (lbs.) front/rear	990/1185 (2180/2610)

Electrical System

Battery	Voltage Capacity	12 V 88 Ah
Starter	Bosch	JF 12V 2.0 kW
Alternator	Bosch	K1-14V 55A Max. output 770W

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Filling Capacities

Fuel tank/reserve fuel		approx. ltr. (US gal.)	70/11 (18.5/2.9)
Initial filling	Engine oil	approx. ltr. approx. US qts.	7.5 8
Oil and filter change	Engine oil	approx. ltr. approx. US qts.	6.5 6.9
Oil pan up to markings on dipstick	Engine oil	approx. ltr. approx. US qts.	5.0/3.5 5.3/3.7
Oil filter	Engine oil	approx. ltr. approx. US qts.	1.5 1.6
Cooling system with heater		approx. ltr. approx. US qts.	11 11.6
Water pump			maintenance free
Brake system	Brake fluid	approx. ltr. approx. US pts.	0.5 1.1
Automatic transmission initial filling	Automatic transmission fluid (ATF)	approx. ltr. approx. US qts.	6.1/4.8 7.0/5.0
Automatic transmission fluid change	Automatic transmission fluid (ATF)		
Rear axle	Hypoid oil SAE 90	approx. ltr. approx. US pts.	1 2.1
Power steering	Automatic transmission fluid (ATF)	approx. ltr. approx. US pts.	1.4 3.0
Level Control System	Hydraulic Fluid	ltr. US qts.	3.5 3.7

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Performance Data with Automatic Transmission

Rear axle ratio			3.46
Maximum speed in individual gears	1st gear	km/h (mph)	36 (22)
	2nd gear	km/h (mph)	64 (40)
	3rd gear	km/h (mph)	104 (65)
	4th gear approx.	km/h (mph)	143 (89)
Gradability	1st gear slip limit	% (1 in)	42 (2.27)
	2nd gear	% (1 in)	29 (2.30)
	3rd gear	% (1 in)	16 (6.25)
	4th gear	% (1 in)	6.5 (11.76)
Acceleration through gears 0 to 100 km/h (0 to 62 mph)	sec \pm 7% ¹		21.9
Load: 2 persons			
Engine rpm at 100 km/h (62 mph) in high gear			3055

Fuel/Oil Consumption and Operating Condition

Fuel consumption during average cross-country driving	ltr./100 km		8–13
	mpg		29–18
Fuel consumption at 107 km/h (66 mph)	ltr./100 km		10.8
	mpg		22
Engine oil consumption (max.)	ltr./100 km		0.25
	miles/US qt.		235
Coolant temperature	max. temp.	approx. °C °F	126 (259)
	in working range of thermostat	approx. °C °F	80–95 176–203
Fuel type	Diesel fuel according to ASTM D 975 No. 1-D and 2-D		

¹ The \pm 7% factor includes possible deviations from permissible engine performance and tire tolerance limits.