

Model		D1803-M-Di
Number of Cylinders		3
Type		Vertical, Water-cooled, 4 cycle diesel engine
Bore × Stroke		87.0 × 102.4 mm (3.43 × 4.031 in.)
Total Displacement		1826 cm ³ (111.4 cu.in.)
ISO Net Continuous		23.2 kW / 2700 min ⁻¹ (rpm) (31.1 HP / 2700 min ⁻¹ (rpm))
ISO/SAE Net Intermittent		26.7 kW / 2700 min ⁻¹ (rpm) (35.8 HP / 2700 min ⁻¹ (rpm))
SAE Gross Intermittent		27.9 kW / 2700 min ⁻¹ (rpm) (37.4 HP / 2700 min ⁻¹ (rpm))
Maximum Bore Speed		2920 min ⁻¹ (rpm)
Minimum Bore Idling Speed		850 to 950 min ⁻¹ (rpm)
Combustion Chamber		Reentrant Type (Direct Injection)
Fuel Injection Pump		Bosch "K" Type Mini Pump
Governor		Mechanical all speed governor
Direction of Rotation		Counter-clockwise (viewed from flywheel side)
Injection Nozzle		Bosch "P" Type Hole Nozzle
Injection Timing		0.087 rad (5.0 °) before T.D.C.
Firing Order		1-2-3
Injection Pressure	1st Stage	18.63 MPa (190.0 kgf/cm ² , 2702 psi)
	2nd Stage	22.56 MPa (230.0 kgf/cm ² , 3271 psi)
Compression Ratio		20.5 : 1
Lubricating System		Forced Lubrication by Trochoid Pump
Oil Pressure Indicating		Electrical type switch
Lubricating Filter		Full flow paper filter (cartridge type)
Cooling System		Pressurized radiator, forced circulation with water pump
Starting System		Electric Starting with Starter
Starting Motor		12 V, 1.4 kW
Starting Support Device		By glow plug in combustion chamber
EGR		NONE
Battery		12 V, 55 AH equivalent
Charging Alternator		12 V, 360 W
Fuel		Diesel Fuel No.2-D (ASTM D975)
Lubricating Oil		Class CF lubricating oil as per API classification is recommended. For details on recommended lubricating oils, see page G-7, G-10.
Lubricating Oil Capacity	Oil Pan Depth 90 mm (3.5 in.)	5.6 L (1.5 U.S.gals)
	Oil Pan Depth 124 mm (4.88 in.)	7.0 L (1.8 U.S.gals)
Weight (Dry)		151 kg (333 lbs)

*The specification described above is of the standard engine of each model.

*Conversion Formula : HP = 0.746 kW, PS = 0.7355 kW

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