

# SPECIFICATIONS

Model		D1403-E2B	D1503-E2B	D1703-E2B
Number of Cylinders		3		
Type		Vertical, Water-cooled, 4 cycle diesel engine		
Bore x Stroke		80 x 92.4 mm (3.15 x 3.64 in.)	83 x 92.4 mm (3.27 x 3.64 in.)	87 x 92.4 mm (3.43 x 3.64 in.)
Total Displacement		1393 cm <sup>3</sup> (85.01 cu.in.)	1499 cm <sup>3</sup> (91.47 cu.in.)	1647 cm <sup>3</sup> (100.51 cu.in.)
ISO Net Continuous		18.8 kW / 2800 min <sup>-1</sup> (rpm) (25.5 HP / 2800 min <sup>-1</sup> (rpm))	20.4 kW / 2800 min <sup>-1</sup> (rpm) (27.3 HP / 2800 min <sup>-1</sup> (rpm))	22.4 kW / 2800 min <sup>-1</sup> (rpm) (30.0 HP / 2800 min <sup>-1</sup> (rpm))
ISO/SAE Net Intermittent		21.6 kW / 2800 min <sup>-1</sup> (rpm) (29.0 HP / 2800 min <sup>-1</sup> (rpm))	23.5 kW / 2800 min <sup>-1</sup> (rpm) (31.5 HP / 2800 min <sup>-1</sup> (rpm))	25.7 kW / 2800 min <sup>-1</sup> (rpm) (34.5 HP / 2800 min <sup>-1</sup> (rpm))
SAE Gross Intermittent		23.1 kW / 2800 min <sup>-1</sup> (rpm) (31.0 HP / 2800 min <sup>-1</sup> (rpm))	24.9 kW / 2800 min <sup>-1</sup> (rpm) (33.4 HP / 2800 min <sup>-1</sup> (rpm))	27.5 kW / 2800 min <sup>-1</sup> (rpm) (36.9 HP / 2800 min <sup>-1</sup> (rpm))
Maximum Bare Speed		3000 min <sup>-1</sup> (rpm)		
Minimum Bare Idling Speed		700 to 750 min <sup>-1</sup> (rpm)		
Combustion Chamber		Spherical type (E-TVC5)		
Fuel Injection Pump		Bosch type mini pump		
Governor		All speed mechanical governor		
Direction of Rotation		Counter-clockwise (viewed from flywheel side)		
Injection Nozzle		Bosch throttle type		
Injection Timing		0.314 rad (18 °) before T.D.C.		
Firing Order		1-2-3		
Injection Pressure		13.73 MPa (140 kgf/cm <sup>2</sup> , 1991 psi)		
Compression Ratio		23 : 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		Fly glow plug in combustion chamber		
Battery		12 V, 60 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. If this class of lubricating oil is not available, preferably use Class CD or CE lubricating oil. For details on recommended lubricating oils, see page G-5, B.		
Lubricating Oil Capacity	Oil Pan Depth 90 mm (3.54 in.)	5.6 L (1.48 U.S.gals)		
	Oil Pan Depth 124 mm (4.88 in.)	7.0 L (1.85 U.S.gals)		
Weight (Dry)		148 kg (326.3 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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# Kubota V1903 V2003 V2203 F2803 Engine Factory Service Manual

**Toyota Corporation**



## **Kubota V1903 V2003 V2203 F2803 Engine Factory Service Manual:**

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