

2. SPECIFICATIONS

Model		Z452-E4B	Z662-E4B
Number of Cylinder		2	
Type		Vertical, Water-cooled, 4 cycle I/DI diesel engine	
Bore × Stroke		67.0 × 68.0 mm (2.64 × 2.68 in.)	72.0 × 73.6 mm (2.83 × 2.90 in.)
Total Displacement		479.0 cm ³ (29.23 cu.in.)	599.0 cm ³ (36.55 cu.in.)
ISO Net Continuous		8.10 kW / 3600 min ⁻¹ (rpm) (10.9 HP / 3600 min ⁻¹ (rpm))	10.1 kW / 3600 min ⁻¹ (rpm) (13.5 HP / 3600 min ⁻¹ (rpm))
ISO / SAE Net Intermittent		9.30 kW / 3600 min ⁻¹ (rpm) (12.5 HP / 3600 min ⁻¹ (rpm))	11.6 kW / 3600 min ⁻¹ (rpm) (15.5 HP / 3600 min ⁻¹ (rpm))
SAE Gross Intermittent		9.90 kW / 3600 min ⁻¹ (rpm) (13.3 HP / 3600 min ⁻¹ (rpm))	12.5 kW / 3600 min ⁻¹ (rpm) (16.8 HP / 3600 min ⁻¹ (rpm))
Maximum Base Speed		3800 min ⁻¹ (rpm)	3850 min ⁻¹ (rpm)
Minimum Base Idling Speed		1250 to 1350 min ⁻¹ (rpm)	1050 to 1150 min ⁻¹ (rpm)
Combustion Chamber		Spherical type (E-TVCS)	
Fuel Injection Pump		Bosch MD type mini pump	
Governor		All speed mechanical governor	
Direction of Rotation		Counter-clockwise (viewed from flywheel side)	
Injection Nozzle		Bosch "Throttle" type	
Injection Timing		0.33 rad (19 °) before T.D.C.	
Firing Order		1-2	
Injection Pressure		13.73 MPa (140.0 kgf/cm ² , 1991 psi)	
Compression Ratio		23.5 : 1	24 : 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 (not included in the basic engine)	
Starting System		Electric Starting with Starter	
Starting Motor		12 V, 0.8 kW	12 V, 1.0 kW
Starting Support Device		By glow plug in combustion chamber	
EGR		None	
Battery		12 V, 25 AH equivalent	12 V, 36 AH equivalent
Charging Alternator		12 V, 150 W	12 V, 480 W
Fuel		Diesel Fuel No.2-D (ASTM D5975)	
Lubricating Oil		Class CF lubricating oil as per API classification is recommended. For details on recommended lubricating oils, see page G-6	
Lubricating Oil Capacity	Oil Pan Depth 101 mm (3.98 in.)	2.1 L (0.55 U.S.gals)	2.5 L (0.66 U.S.gals)
	Oil Pan Depth 121 mm (4.76 in.)	2.5 L (0.66 U.S.gals)	—
Weight (Dry)		53.1 kg (117 lbs)	57.0 kg (125.7 lbs)

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

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

Kubota D722 Diesel Engine Repair Manual

**Toyota Jidōsha Hanbai Kabushiki
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