



INDUSTRIAL DIESEL ENGINE D722-E3B-CHN-1



Engine Specifications

		D722-E3B-CHN-1
Cylinders		3
Type		Vertical, water cooled 4-cycle IDI diesel engine
Bore x Stroke	mm (in)	67.0 x 68.0 (2.64 x 2.68)
Displacement	L (cu.in)	0.719 (43.88)
Aspiration		Naturally Aspirated
Aftertreatment		None
Rated power*1	kW (HP) / rpm	14.9 (20.0) / 3600
Maximum torque*1	Nm (lbf-ft) / rpm	45.8 (33.8) / 2600
No load maximum speed	rpm	3820
No load minimum idling speed	rpm	950
Maximum air intake restriction with new air cleaner element	kPa (mmAq)	2.45 (250)
Maximum air intake restriction with dirty air cleaner element	kPa (mmAq)	4.90 (500)
Maximum exhaust pressure	kPa (mmHg)	9.3 (70)
Injection timing (High pressure overflow method)	degree	TDC-22
Fuel injection pressure	MPa (psi)	13.7 (1990)
Combustion chamber type		Spherical type (E-TVCS: Three Vortex Combustion System)
Fuel injection pump type		In-line pump
Governor type		Centrifugal ball mechanical type governor
Injector		Throttle type
Direction of rotation		Counter clockwise viewed from flywheel side
Firing order		1 - 2 - 3
Compression ratio		23.5
Lubricating system		Forced lubrication by trochoid pump
Cooling system		Pressurized radiator, forced circulation with water pump
Exhaust Gas Recirculation (EGR)		None
Starting aid device		Glow plug
Starter motor	V - kW	12 - 1.0
Charging alternator	V - W	12 - 168
Lubricating oil capacity	L (U.S. gal)	3.8 (1.00)
Recommended coolant capacity	L (U.S. gal)	3.1 (0.82)
Length x Width x Height*1	mm (in)	407 x 386 x 564 (16.0 x 15.2 x 22.2)
Dry weight*1	kg (lb)	63 (139)



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Power Rating

		Engine speed (rpm)						
		2000	2400	2600	3000	3200	3400	3600
Gross Intermittent	kW	7.6	9.6	10.8	12.4	13.2	14.0	14.9
Net Intermittent*2	kW	7.4	9.2	10.3	11.7	12.5	13.0	14.0
Net Continuous*2	kW	6.4	8.0	8.9	10.2	10.9	11.3	12.2

*1: SAE J1995

Fuel Consumption (at rated power)

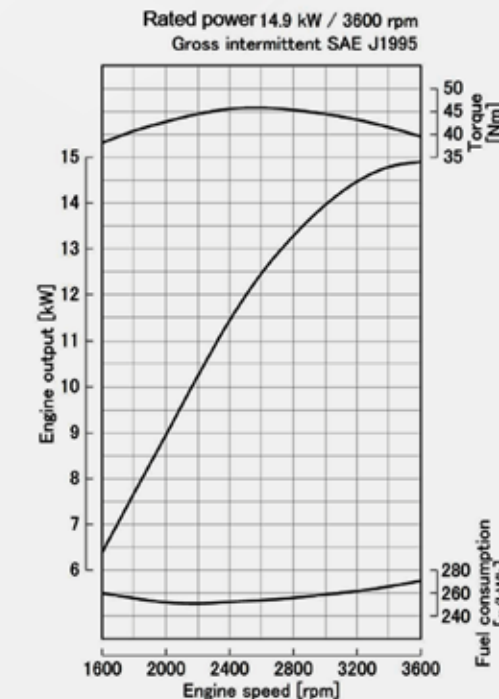
		Engine speed (rpm)						
		2000	2400	2600	3000	3200	3400	3600
Rated power*1	kW	7.6	9.6	10.8	12.4	13.2	14.0	14.9
	HP	10.2	12.9	14.5	16.6	17.7	18.8	20.0
Specific fuel consumption	g/kWh	249	259	251	258	262	266	274
	lb/HPh	0.409	0.426	0.413	0.424	0.431	0.437	0.45
Fuel consumption	L/h	2.25	2.96	3.23	3.81	4.12	4.44	4.86
	gal/h	0.59	0.78	0.85	1.01	1.09	1.17	1.28

*1: Gross intermittent SAE J1995

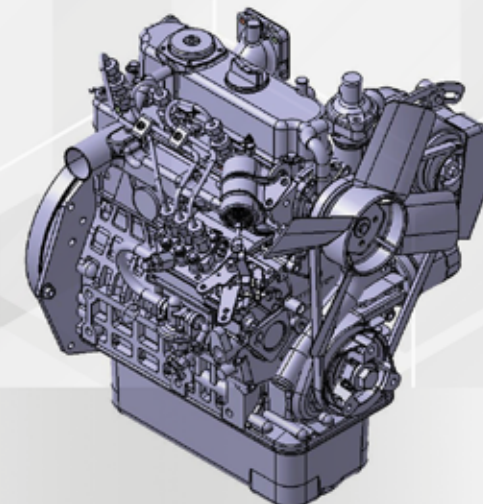
Noise Level

		No load min speed	No load max speed	No load min speed
Noise Level	db (A) / rpm	70.5 / 950	89.5 / 3820	90.5 / 3600

Performance Curve



Your Driving Force
KUBOTA ENGINE



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