



ENGINE SPECIFICATIONS

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STANDARD FEATURES	Manufacturer / Model	VOLVO TAD941GE , 4-strokes, Turbo , Air/Air DC 6 X
	Cylinder Arrangement	L
	Displacement	9.36L [571.2C.I.]
	Bore and Stroke	138mm [5.4in.] X 120mm [4.7in.]
	Compression ratio	17.4 : 1
	Rated RPM	1500 Rpm
	Piston Speed	6.9m/s [22.6ft./s]
	Max. stand by Power at rated RPM	320kW [429BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	26bar [377psi]
Governor : type	ELEC	
EXHAUST SYSTEM	Exhaust gas flow	775L/s [1642cfm]
	Exhaust temperature	519°C [966°F]
	Max back pressure	1000mm CE [39in. WG]
FUEL SYSTEM	110% (Stand By power)	75.9L/h [20.1gal/hr]
	100% (of the Prime Power)	68.1L/h [18.0gal/hr]
	75% (of the Prime Power)	50.6L/h [13.4gal/hr]
	50% (of the Prime Power)	35.1L/h [9.3gal/hr]
	Max. fuel pump flow	108L/h [28.5gal/hr]
OIL SYSTEM	Total oil capacity w/filters	33L [8.7gal]
	Oil Pressure low idle	0.7bar [10.1psi]
	Oil Pressure rated RPM	6bar [86.9psi]
	Oil consumption 100% load	0.06L/h [0.0159gal/hr]
	Oil capacity carter	28L [7.4gal]
THERMAL BALANCE	Heat rejection to exhaust	224kW [12737Btu/mn]
	Radiated heat to ambient	9kW [512Btu/mn]
	Heat rejection to coolant	129kW [7335Btu/mn]
AIR INTAKE	Max. intake restriction	500mm CE [20in. WG]
	Engine air flow	295L/s [625cfm]
COOLANT SYSTEM	Radiator & engine capacity	41L [10.832gal]
	Max water temperature	103°C [217°F]
	Outlet water temperature	93°C [199°F]
	Fan power	15 kW
	Fan air flow w/o restriction	5.9m ³ /s [12503cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Glycol-Ethylene
Thermostat	82-92 °C	
GAS SYSTEM	HC	30 mg/Nm ³
	CO	340 mg/Nm ³
	Nox	2200 mg/Nm ³
	PM	30 mg/Nm ³