



ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	VOLVO TAD1642GE , 4-strokes, Turbo , Air/Air DC 6 X
	Cylinder Arrangement	L
	Displacement	16.12L [983.7C.I.]
	Bore and Stroke	165mm [6.5in.] X 144mm [5.7in.]
	Compression ratio	16.5 : 1
	Rated RPM	1500 Rpm
	Piston Speed	8.25m/s [27.1ft./s]
	Max. stand by Power at rated RPM	536kW [718BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	24.06bar [349psi]
Governor : type	ELEC	
EXHAUST SYSTEM	Exhaust gas flow	1678L/s [3556cfm]
	Exhaust temperature	494°C [921°F]
	Max back pressure	1000mm CE [39in. WG]
FUEL SYSTEM	110% (Stand By power)	129.75L/h [34.3gal/hr]
	100% (of the Prime Power)	115.93L/h [30.6gal/hr]
	75% (of the Prime Power)	85.21L/h [22.5gal/hr]
	50% (of the Prime Power)	57.10L/h [15.1gal/hr]
	Max. fuel pump flow	180L/h [47.6gal/hr]
OIL SYSTEM	Total oil capacity w/filters	48L [12.7gal]
	Oil Pressure low idle	0.7bar [10.1psi]
	Oil Pressure rated RPM	6.5bar [94.2psi]
	Oil consumption 100% load	0.1L/h [0.0gal/hr]
	Oil capacity carter	42L [11.1gal]
THERMAL BALANCE	Heat rejection to exhaust	426kW [24222Btu/mn]
	Radiated heat to ambient	20kW [1137Btu/mn]
	Heat rejection to coolant	218kW [12395Btu/mn]
AIR INTAKE	Max. intake restriction	500mm CE [20in. WG]
	Engine air flow	676L/s [1433cfm]
COOLANT SYSTEM	Radiator & engine capacity	60L [15.852gal]
	Max water temperature	103°C [217°F]
	Outlet water temperature	93°C [199°F]
	Fan power	11 kW
	Fan air flow w/o restriction	10m ³ /s [21191cfm]
	Available restriction on air flow	30mm CE [1.2in. WG]
	Type of coolant	Glycol-Ethylene
	Thermostat	86-96 °C
GAS SYSTEM	HC	0.12 g/KW.h
	CO	1.2 g/KW.h
	Nox	5.3 g/KW.h
	PM	0.100 g/KW.h