



ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	VOLVO TAD734GE , 4-strokes, Turbo , Air/Air DC 6 X
	Cylinder Arrangement	L
	Displacement	7.15L [436.3C.I.]
	Bore and Stroke	130mm [5.1in.] X 108mm [4.3in.]
	Compression ratio	17.1 : 1
	Rated RPM	1500 Rpm
	Piston Speed	6.5m/s [21.3ft./s]
	Max. stand by Power at rated RPM	241kW [323BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	28bar [406psi]
Governor : type	ELEC	
EXHAUST SYSTEM	Exhaust gas flow	557L/s [1180cfm]
	Exhaust temperature	550°C [1022°F]
	Max back pressure	750mm CE [30in. WG]
FUEL SYSTEM	110% (Stand By power)	59.6L/h [15.7gal/hr]
	100% (of the Prime Power)	53.4L/h [14.1gal/hr]
	75% (of the Prime Power)	42.6L/h [11.3gal/hr]
	50% (of the Prime Power)	30.5L/h [8.1gal/hr]
	Max. fuel pump flow	300L/h [79.3gal/hr]
OIL SYSTEM	Total oil capacity w/filters	29L [7.7gal]
	Oil Pressure low idle	1bar [14.5psi]
	Oil Pressure rated RPM	4.5bar [65.2psi]
	Oil consumption 100% load	0.01L/h [0.0gal/hr]
	Oil capacity carter	24L [6.3gal]
THERMAL BALANCE	Heat rejection to exhaust	177kW [10064Btu/mn]
	Radiated heat to ambient	26kW [1478Btu/mn]
	Heat rejection to coolant	129kW [7335Btu/mn]
AIR INTAKE	Max. intake restriction	300mm CE [12in. WG]
	Engine air flow	272L/s [576cfm]
COOLANT SYSTEM	Radiator & engine capacity	N/A
	Max water temperature	103°C [217°F]
	Outlet water temperature	93°C [199°F]
	Fan power	9.2 kW
	Fan air flow w/o restriction	4.8m ³ /s [10172cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Glycol-Ethylene
	Thermostat	83-95 °C
GAS SYSTEM	HC	0.079 g/KW.h
	CO	0.350 g/KW.h
	Nox	5.014 g/KW.h
	PM	0.049 g/KW.h