



ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	VOLVO TAD733GE , 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	18.1 : 1
	Rated RPM	1500 Rpm
	Piston Speed	6.5m/s [21.3ft./s]
	Max. stand by Power at rated RPM	197kW [264BHP]
	Frequency regulation, steady state	+/- 0.5%
	BMEP	23bar [333psi]
Governor : type	ELEC	
EXHAUST SYSTEM	Exhaust gas flow	565L/s [1197cfm]
	Exhaust temperature	540°C [1004°F]
	Max back pressure	1000mm CE [39in. WG]
FUEL SYSTEM	110% (Stand By power)	47.6L/h [12.6gal/hr]
	100% (of the Prime Power)	42.7L/h [11.3gal/hr]
	75% (of the Prime Power)	31.7L/h [8.4gal/hr]
	50% (of the Prime Power)	21.3L/h [5.6gal/hr]
	Max. fuel pump flow	360L/h [95.1gal/hr]
OIL SYSTEM	Total oil capacity w/filters	34L [9.0gal]
	Oil Pressure low idle	2bar [29.0psi]
	Oil Pressure rated RPM	4bar [58.0psi]
	Oil consumption 100% load	0.08L/h [0.0gal/hr]
	Oil capacity carter	31L [8.2gal]
THERMAL BALANCE	Heat rejection to exhaust	143kW [8131Btu/mn]
	Radiated heat to ambient	13kW [739Btu/mn]
	Heat rejection to coolant	91kW [5174Btu/mn]
AIR INTAKE	Max. intake restriction	250mm CE [10in. WG]
	Engine air flow	211L/s [447cfm]
COOLANT SYSTEM	Radiator & engine capacity	35.8L [9.458gal]
	Max water temperature	105°C [221°F]
	Outlet water temperature	102°C [216°F]
	Fan power	4.4 kW
	Fan air flow w/o restriction	5.5m ³ /s [11655cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Glycol-Ethylene
	Thermostat	87-102 °C
GAS SYSTEM	HC	0.323 g/KW.h
	CO	0.504 g/KW.h
	Nox	5.813 g/KW.h
	PM	0.064 g/KW.h