

ENGINE DATA

Manufacturer :		VOLVO	
Model :		TAD1030GE , 4-cycle, Turbo , Air/Water SC	
Cylinder Arrangement :		6 X L	
Displacement :		9.6 L (585.8 C.I.)	
Bore and Stroke :		120.65 mm (4.7 in.)X 140 mm (5.5 in.)	
Compression ratio :		15:01	
Rated RPM :		1800 Rpm	
Piston Speed :		8.4 m/s (27.6 ft./s)	
Max. Power at rated RPM :		281 kW (377 BHP)	
Frequency regulation, no load to full load :		Isochronous	
Frequency regulation, steady state :		0.25 %	
BMEP :		17.7 bar (256 psi)	
Governor : type, make		Isochronous , GAC	
Exhaust System		Air Intake	
Exhaust gas flow	1060 L/s (2246 cfm)	Max. intake restriction	500 mm CE (20 in. WG)
Exhaust temperature	430 °C (806 °F)	Engine air flow	410 L/s (869 cfm)
Max back pressure	700 mm CE (28 in. WG)	Coolant System	
Fuel System		Ambient Temperature	50°C (122°F)
100%	70 L/h (18.5 gal/hr)	Radiator & engine capacity	37.3 L (9.9 gal)
75%	46.7 L/h (12.3 gal/hr)	Max water temperature	103 °C (217 °F)
50%	31.7 L/h (8.4 gal/hr)	Outlet water temperature	93 °C (199 °F)
25%		Fan power	9 kW
Total fuel flow	125 L/h (33.0 gal/hr)	Fan air flow	5 m3/s (10595 cfm)
Oil System		Engine heat rejection	262 kW (14897 Btu/min)
Total oil capacity w/filters	36 L (9.5 gal)	Emissions	
Oil Pressure low idle	0.7 bar (10.1 psi)	HC, gr/kwh (gr/BHP-h)	0.48 (0.64)
Oil Pressure rated RPM	5 bar (72.5 psi)	CO, gr/kwh (gr/BHP-h)	1.15 (1.54)
		NOx, gr/kwh (gr/BHP-h)	7.68 (10.29)