



Chongqing Cummins Engine Co. Ltd.

Propulsion Marine Engine Performance Data

	Curve No.: DS: CPL: DATE:	M-629 DS-4983 0975 23-Nov-08
General Engine Data		
Engine Model		T38-M
Rating Type		ntinuous
Rated Engine Power hp [kW		0 [596]
Rated Engine Speedrpn		1800
Peak Engine Torque @ 1500 rpmlb. ft. [N·m		9 [3484]
Brake Mean Effective Pressurepsi [kPa Minimum Idle Speed Settingrpn	-	2 [1046] 75-675
Normal Idle Speed Variation		50
High Idle Speed Range Minimumrpn		1962
Maximum		2200
Aspiration		ocharged
Compression Ratio		5.5:1
Piston Speed ft/min [m/sec		0 [9.5]
Weight (Dry) - Engine Only - AverageIb. [kg] 794	3 [3606]
Weight (Dry) - Engine With HeatexchangerSystem - Averagelb. [kg Installation Diagram No	-	7 [4457] 15140
Fuel System ¹		
Fuel Consumption at Rated Speedgal/hr [l/hr		9 [147]
Approximate Fuel Flow to Pump	-	7 [441]
Maximum Allowable Fuel Supply to Pump Temperature) [60]
Approximate Fuel Return to Tank Temperature	-	[68]
Fuel Pressure - Pump Out / Rail Mechanical Gaugepsi [kPa) [820]
Air System ¹		
Intake Manifold Pressurein. Hg [kPa] 30) [102]
Intake Air Flowcfm [l/sce] 1694	ŧ [800]
Heat Rejection to AmbientBTU/min [kW	4440) [78]
Exhaust System ¹		
Exhaust Gas Flow	-	5 [1990]
Exhaust Gas Temperature (Turbine Out)°F [°C	-) [471]
Exhaust Gas Temperature (Manifold)°F [°C] 1112	2 [600]
Cooling System ¹	1	
Sea Water Pump SpecificationsMAB 0.08.17-07/16/200 Pressure Cap Rating (With Heat Exchanger Option)main [kPa		7 [50]
Engines without Low Temperature Aftercooler (LTA)	1	7[50]
Jacket Water Aftercooled Engine (JWAC)	-	
Coolant Flow to Engine Heat Exchanger	-) [1513]
Standard Thermostat Operating Range (Start to Open)°F [°C) [82]
Standard Thermostat Operating Range (Full Open)°F [°C	-	3 [95]
Heat Rejection to Engine Coolant ³ BTU/min [kW	29029	9 [510]
 TBD = To Be Determined N/A = Not Applicable 1. All Data at Rated Conditions. 2. Consult Installation Direction Booklet for Limitations. 3. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix. 	N	I.A. = Not Avaliable

4. Consult option notes for flow specifications of optional Cummins seawater pumps (if applicable).

CHONGQING CUMMINS ENGINE CO. LTD.

CHONGQING, P.R.CHINA, 400031

All Data is Subject to Change Without Notice - contact CCEC for most recent data .