



## Chongqing Cummins Engine Co. Ltd.

Propulsion Marine Engine Performance Data

	Curve No. DS: CPL: DATE:	: M-631 DS-4983 0975 18-Dec-08
General Engine Data		
Engine Model		KT38-M
Rating Type		Continuous
Rated Engine Power		900 [ 671 ]
Rated Engine Speed		1800
Peak Engine Torque @ rpmlb. ft.		N.A.
Brake Mean Effective Pressurepsi		171 [ 1177 ]
Minimum Idle Speed Setting.		575-675
Normal Idle Speed Variation.		50
High Idle Speed Range Minimum	•	1962
MaximumAspiration		2200 urbocharged
Compression Ratio		15.5:1
Piston Speed		870 [ 9.5 ]
Weight (Dry) - Engine Only - Average	-	943 [ 3606 ]
Weight (Dry) - Engine With HeatexchangerSystem - Average		817 [ 4457 ]
Installation Diagram No.		4915140
Fuel System <sup>1</sup>		
Fuel Consumption at Rated Speedgal/h	r [l/hr]	44 [166]
Approximate Fuel Flow to Pumpgal/h		132 [498]
Maximum Allowable Fuel Supply to Pump Temperature ° F		140 [60]
Approximate Fuel Return to Tank Temperature		154 [68]
Maximum Heat Rejection to Drain FuelBTU/mir Fuel Pressure - Pump Out / Rail Mechanical Gaugepsi		N.A. 4.0 [923]
Air Ourstand		
Air System <sup>1</sup> Intake Manifold Pressurein. Hg	[kDo]	34 [115]
Intake Air Flow		906 [900]
Heat Rejection to AmbientBTU/mir		000 [ 900 ] 009 [ 88 ]
Exhaust System <sup>1</sup>		
Exhaust Gas Flow	[l/sec] 4	742 [2239]
Exhaust Gas Temperature (Turbine Out)°I		932 500 1
Exhaust Gas Temperature (Manifold)°I	F [°C] 1	166 [ 630 ]
Cooling System <sup>1</sup>		
Sea Water Pump SpecificationsMAB 0.08.17-07/16	6/2001	
Pressure Cap Rating (With Heat Exchanger Option)psi	[kPa]	7 [ 50 ]
Engines without Low Temperature Aftercooler (LTA) Jacket Water Aftercooled Engine (JWAC)		
Coolant Flow to Engine Heat Exchangergal/min	[l/min]	400 [1513]
Standard Thermostat Operating Range (Start to Open) °F	<sup>=</sup> [°C]	180 [ 82 ]
Standard Thermostat Operating Range (Full Open)		203 [95]
Heat Rejection to Engine Coolant <sup>2</sup> BTU/min	[kW] 32	672 [574]
<ul> <li>TBD = To Be Determined N/A = Not Applicable</li> <li>1. All Data at Rated Conditions.</li> <li>2. Consult Installation Direction Booklet for Limitations.</li> <li>3. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix.</li> </ul>		N.A. = Not Avaliable
<ol> <li>Constitución de contant valade al o pareira en conto en provincia provincia grycoli mix.</li> </ol>	lieghte)	

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 .