

Rating Conditions: Ratings are in accordance with ISO-3046 reference conditions; air pressure at 100 kPa (29.61.in Hg.), air temperature 25°C (77°F), and 30% relative humidity. The fuel consumption data is based on GB252 No.0 diesel fuel (No. 2 diesel fuel in U.S.) weight at 0.85 kg/litre (7.1 lb/U.S. gal).

Power output curves are based on the engine operating with fuel system, water pump, and lubricating oil pump; not included are battery charging alternator, fan, optional equipment, and driven components.

Operation at Elevated Temperatures for sustained operation above 40°C (104°F), derate 2% per 11°C (1% per 10° **Prime Power Rating** is applicable for supplying continual electrical power at varied load. The following are the Prime Rating parameters:

* Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours.

* The total operating time at 100% Prime Power shall not exceed 500 hours per year.

* There is a 10% overload capability for a period of 1 hour within a 12 hour period of operation. Total operating time at 10% overload shall not exceed 25 hours per year.



Chongqing Cummins Engine Co. Ltd.

Auxiliary Marine Engine Performance Data

	Curve No.: DS: CPL: DATE:	D(M)-133 DS-D093641 CQ125 10-Sep-08
General Engine Data ¹		
Engine Model		55-D(M)
Rating Type		Overload
Rated Engine Power hp [kW]		354 [264]
Governed Engine Speedrpm		1500
Rated HP Production Tolerance		
Rated Engine Torquelb. ft. [N·m]		1240 [1681]
Idle Speed Range rpm		
Brake Mean Effective Pressurepsi [kPa]		219 [1509]
Compression Ratio		
Piston Speed ft/min [m/sec]		
Friction Powerhp [kW]	29 [22]	
Fuel System ¹		
Fuel Consumption	15.9 [60.1]	18 [66.3]
Approximate Fuel Flow to Pump		53 [198.9]
Maximum Allowable Fuel Supply to Pump Temperature°F [°C]		55[190.9]
Approximate Fuel Flow Return to Tank		
Fuel Rail Pressure		100 [105/]
		182 [1254]
Weight ¹		
Dry - Engine Onlylb. [kg]	2896 [1315]	
Dry - Engine With Heatexchangerlb. [kg]		
Installation Diagram No	491	4572
Hookup Diagram & Drawing, electrical circuit No	. 4061349	4061350
Air System ¹		
Intake Manifold Pressurein. Hg [kPa]		37 [125]
Intake Air Flow		731 [345]
Heat Rejection to AmbientBTU/min [kW]	1651 [29]	1821 [32]
Exhaust System ¹		
Exhaust Gystern Exhaust Gas Flow	1589 [750]	
Exhaust Gas Temperature (Turbine Out)°F [°C]		
Heat Rejection to ExhaustBTU/min [kW]		
	0190[144]	
Cooling System ¹		
Sea Water Pump SpecificationsMAB 0.08.17-07/16/2001		
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]	54 [204]	
Standard Thermostat Operating Range (Min)°F [°C]		
Standard Thermostat Operating Range (Max)°F [°C]		
Heat Rejection to Engine Coolant ³ BTU/min [kW]		
TBD = To Be Determined N/A = Not Applicable		. = Not Avaliable
1. All Data at Rated Conditions.	IN.A	

2. Consult Installation Direction Booklet for Limitations.

Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix and do NOT include fouling factors. If sourcing your own cooler, a service fouling factor should be applied according to the cooler manufacturer's recommendation.
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 .