





Chongqing Cummins Engine Co. Ltd.

Auxiliary Marine Engine Performance Data

Curve No.: D(M)-802
DS: DS-D093641
CPL: CQ125
DATE: 7-Oct-08

General Engine Data¹

Engine Model.....	NTA855-D(M)	
Rating Type	Prime Power	Overload
Rated Engine Power..... hp [kW]	354 [264]	390 [291]
Governed Engine Speed.....rpm	1500	1500
Rated HP Production Tolerance.....	±2%	
Rated Engine Torque.....lb. ft. [N·m]	1240 [1681]	1367 [1853]
Idle Speed Range..... rpm	575-650	
Brake Mean Effective Pressure.....psi [kPa]	219 [1509]	241 [1663]
Compression Ratio	14.5:1	
Piston Speed..... ft/min [m/sec]	1496 [7.6]	
Friction Power.....hp [kW]	29 [22]	

Fuel System¹

Fuel Consumption.....gal/hr [l/hr]	16.4 [62]	18 [68]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	49 [186]	54 [204]
Maximum Allowable Fuel Supply to Pump Temperature.....°F [°C]	160 [71]	
Approximate Fuel Flow Return to Tank.....°F [°C]	N.A.	
Fuel Rail Pressure.....psi [kPa]		201 [1385]

Weight¹

Dry - Engine Only	lb. [kg]	2863 [1300]
Dry - Engine With Heatexchanger	lb. [kg]	3106 [1410]
Installation Diagram No.....		4914572
Hookup Diagram & Drawing, electrical circuit No.....		4061349, 4061350

Air System¹

Intake Manifold Pressure.....in. Hg [kPa]	N.A.	48 [163]
Intake Air Flow.....cfm [l/sce]	748 [353]	803 [379]
Heat Rejection to Ambient.....BTU/min [kW]	1821 [32]	1992 [35]

Exhaust System¹

Exhaust Gas Flow.....cfm [l/sec]	1758 [830]	1991 [940]
Exhaust Gas Temperature (Turbine Out).....°F [°C]	903 [484]	928 [498]
Heat Rejection to Exhaust.....BTU/min [kW]	9050 [159]	10018 [176]

Cooling System¹

Sea Water Pump Specifications.....	MAB 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 Exchanger.....gal/min [l/min]	52 [195]	
Standard Thermostat Operating Range (Min).....°F [°C]	180 [82]	
Standard Thermostat Operating Range (Max).....°F [°C]	201 [94]	
Heat Rejection to Engine Coolant ²BTU/min [kW]	10872 [191]	12067 [212]

TBD = To Be Determined

N/A = Not Applicable

N.A. = Not Available

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 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.

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

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