





Chongqing Cummins Engine Co. Ltd.

Auxiliary Marine Engine Performance Data

Curve No.: D(M)-169
DS: DS-D093641
CPL: CQ126
DATE: 11-Sep-08

General Engine Data¹

Engine Model.....	NTA855-D(M)
Rating Type	Prime Power Overload
Rated Engine Power..... hp [kW]	380 [284] 430 [321]
Governed Engine Speed.....rpm	1500 1500
Rated HP Production Tolerance.....	±2%
Rated Engine Torque.....lb. ft. [N·m]	1507 [2043]
Idle Speed Range..... rpm	575-650
Brake Mean Effective Pressure.....psi [kPa]	235 [1623] 266 [1834]
Compression Ratio	14.0:1
Piston Speed..... ft/min [m/sec]	1496 [7.6]
Friction Power.....hp [kW]	29 [22]

Fuel System¹

Fuel Consumption.....gal/hr [l/hr]	18.5 [70] 21 [79]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	55 [210] 63 [237]
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]	166 [1144]

Weight¹

Dry - Engine Only	lb. [kg]	2896 [1315]
Dry - Engine With Heatexchanger	lb. [kg]	3128 [1420]
Installation Diagram No.....		4914572
Hookup Diagram & Drawing, electrical circuit No.....		4061349, 4061350

Air System¹

Intake Manifold Pressure.....in. Hg [kPa]	N.A.	43 [146]
Intake Air Flow.....cfm [l/sce]	794 [375]	885 [418]
Heat Rejection to Ambient.....BTU/min [kW]	1935 [34]	2220 [39]

Exhaust System¹

Exhaust Gas Flow.....cfm [l/sec]	2097 [990]	2372 [1120]
Exhaust Gas Temperature (Turbine Out).....°F [°C]	905 [485]	930 [499]
Heat Rejection to Exhaust.....BTU/min [kW]	9790 [172]	11099 [195]

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]	11726 [206] 13319 [234]

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 .