





# Chongqing Cummins Engine Co. Ltd.

## Propulsion Marine Engine Performance Data

Curve No.: M-176  
DS: DS-4962  
CPL: 0731  
DATE: 6-Oct-08

### General Engine Data

Engine Model.....	NT855-M
Rating Type .....	Continuous
Rated Engine Power..... hp [kW]	250 [ 187 ]
Rated Engine Speed.....rpm	1800
Peak Engine Torque @ ..... rpm ..... lb. · ft. [N · m]	N.A.
Brake Mean Effective Pressure.....psi [kPa]	129 [ 890 ]
Minimum Idle Speed Setting.....rpm	575-675
Normal Idle Speed Variation.....±rpm	50
High Idle Speed Range     Minimum.....rpm	1962
Maximum.....rpm	2106
Aspiration .....	Turbocharged
Compression Ratio .....	14.5:1
Piston Speed..... ft/min [m/sec]	1791 [ 9.1 ]
Weight (Dry) - Engine Only - Average.....lb. [kg]	2797 [ 1270 ]
Weight (Dry) - Engine With HeatexchangerSystem - Average .....lb. [kg]	3040 [ 1380 ]
Installation Diagram No.....	4061292

### Fuel System<sup>1</sup>

Fuel Consumption at Rated Speed.....gal/hr [l/hr]	12 [ 46 ]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	36 [ 138 ]
Maximum Allowable Fuel Supply to Pump Temperature..... ° F [ ° C]	160 [ 71 ]
Approximate Fuel Return to Tank Temperature..... ° F [ ° C]	N.A.
Maximum Heat Rejection to Drain Fuel.....BTU/min [kW]	N.A.
Fuel Pressure - Pump Out / Rail             Mechanical Gauge.....psi [kPa]	91 [ 627 ]

### Air System<sup>1</sup>

Intake Manifold Pressure.....in. Hg [kPa]	22 [ 74 ]
Intake Air Flow.....cfm [l/sce]	731 [ 345 ]
Heat Rejection to Ambient.....BTU/min [kW]	1309 [ 23 ]

### Exhaust System<sup>1</sup>

Exhaust Gas Flow.....cfm [l/sec]	1652 [ 780 ]
Exhaust Gas Temperature (Turbine Out)..... ° F [ ° C]	700 [ 371 ]
Exhaust Gas Temperature (Manifold)..... ° F [ ° C]	970 [ 521 ]

### Cooling System<sup>1</sup>

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]	62 [ 234 ]
Standard Thermostat Operating Range (Start to Open)..... ° F [ ° C]	180 [ 82 ]
Standard Thermostat Operating Range (Full Open)..... ° F [ ° C]	201 [ 94 ]
Heat Rejection to Engine Coolant <sup>3</sup> ..... BTU/min [kW]	7969 [ 140 ]

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.

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 .