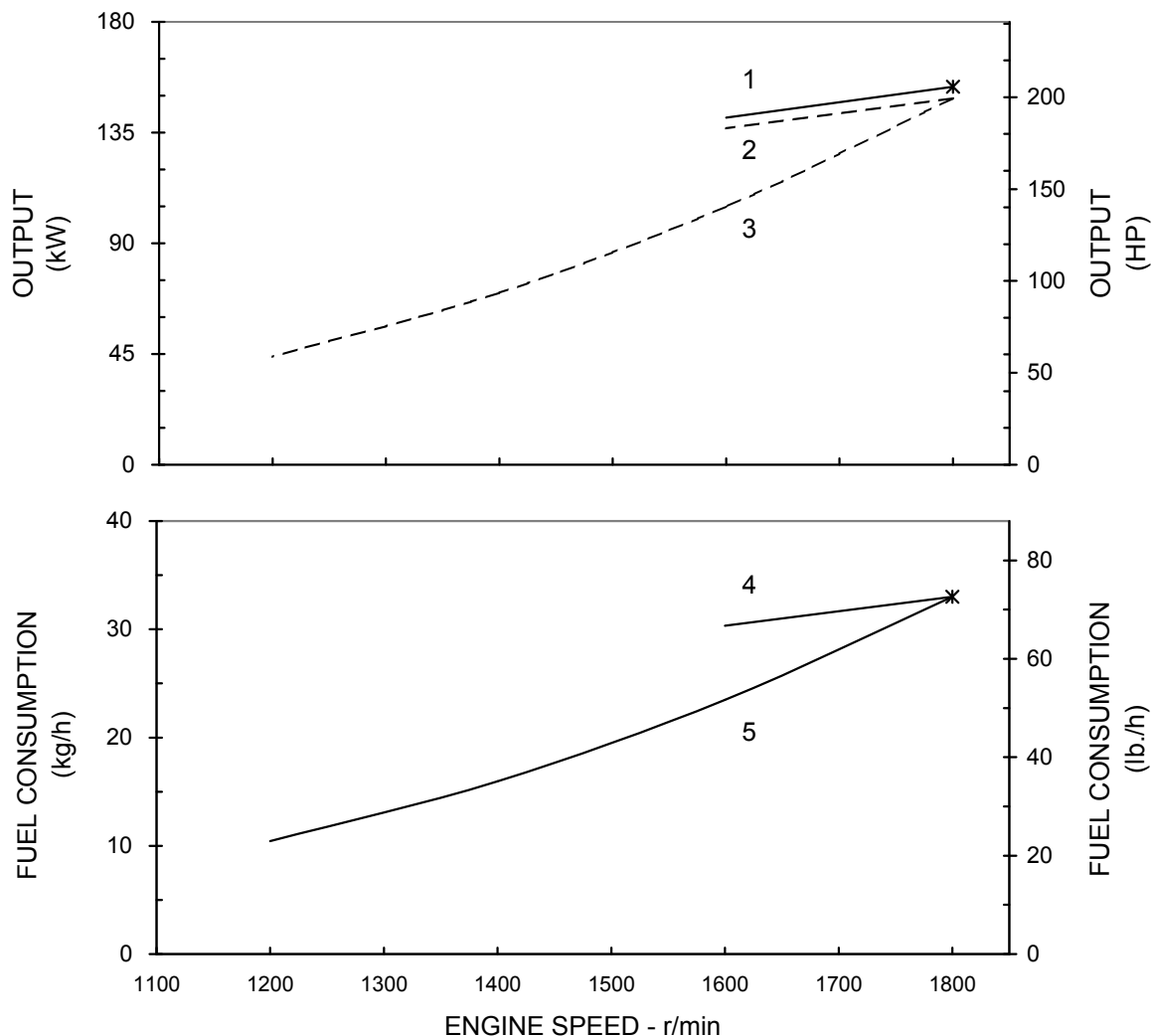
	<b>CHONGQING CUMMINS ENGINE</b> <b>PERFORMANCE CURVE</b>	Engine Model <b>NT855-M</b>	Curve No. <b>M-166</b>	
		Configuration <b>D092347MX02</b>	CPL Code <b>0731</b>	Date <b>27-Sep-08</b>

Displacement: **14L [855 in.<sup>3</sup>]**    Advertisd Power: **149kW [200HP] @1800 r/min**  
 Bore: **140mm [5.50 in.]**  
 Stroke: **152mm [6.00in.]**    Aspiration: **Turbocharged**  
 Fuel System: **PT**    Rating Type: **Continuous**  
 Cylinders: **6**

CERTIFIED: This marine diesel engine complies with or is certified to the:  
 IMO-NOx requirements of the International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13



Rating Conditions: Ratings are based upon ISO 8665 and SAE J1228 reference conditions; air pressure of 100kPa [29.612 in.Hg] air temperature 25°C [77°F] and 30% relative humidity. Power is rated in accordance with IMCI prodedures.

Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having LHV of 42,780 kj/kg (18,390 Btu/lb) and weighing 838.9 g/liter (7.001 lb/U.S.gal).

Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power.

- |   |  |
|---|--|
| 1. Brake power                                  | 4. Fuel Consumption for Brake and Shaft power. |
| 2. Shaft power with Reverse / Reduction Gear    | 5. Fuel Consumption for Typical Propeller.     |
| 3. Typical Propeller Power Curve (3.0 exponent) |  |

**Continuous Rating:** This power rating is intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO3046 Standard Power Rating.



# Chongqing Cummins Engine Co. Ltd.

## Propulsion Marine Engine Performance Data

Curve No.: M-166  
 DS: DS-4962  
 CPL: 0731  
 DATE: 27-Sep-08

### General Engine Data

Engine Model.....	NT855-M
Rating Type .....	Continuous
Rated Engine Power..... hp [kW]	200 [ 149 ]
Rated Engine Speed..... rpm	1800
Peak Engine Torque @ rpm..... lb. ft. [N · m]	N.A.
Brake Mean Effective Pressure..... psi [kPa]	103 [ 710 ]
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]	2771 [ 1258 ]
Weight (Dry) - Engine With HeatexchangerSystem - Average..... lb. [kg]	3051 [ 1385 ]
Installation Diagram No.....	4061292

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

Fuel Consumption at Rated Speed..... gal/hr [l/hr]	10 [ 39 ]
Approximate Fuel Flow to Pump..... gal/hr [l/hr]	31 [ 117 ]
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]	79 [ 544 ]

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

Intake Manifold Pressure..... in. Hg [kPa]	19 [ 64 ]
Intake Air Flow..... cfm [l/sce]	608 [ 287 ]
Heat Rejection to Ambient..... BTU/min [kW]	1081 [ 19 ]

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

Exhaust Gas Flow..... cfm [l/sec]	1377 [ 650 ]
Exhaust Gas Temperature (Turbine Out)..... ° F [ ° C]	676 [ 358 ]
Exhaust Gas Temperature (Manifold)..... ° F [ ° C]	946 [ 508 ]

### 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]	6375 [ 112 ]

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 .