	CHONGQING CUMMINS ENGINE PERFORMANCE CURVE	Engine Model NTA855-D(M)	Curve No. D(M)-168	
		Configuration D093641MX02	CPL Code CQ125	Date 10-Sep-08

Displacement: **14L [855 in.³]**
 Bore: **140mm [5.50 in.]**
 Stroke: **152mm [6.00in.]**
 Fuel System: **PT**
 Cylinders: **6**

Prime Power: **kW [HP] @ r/min**
287 [385] @1800

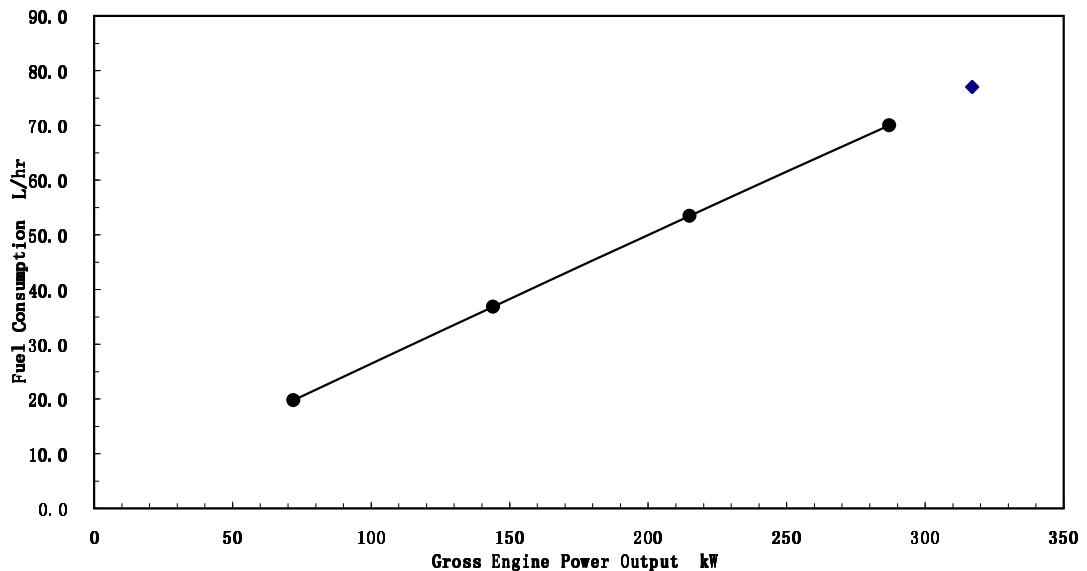
Aspiration: **Turbocharged/Aftercooled**
 Exhaust: **Wet**

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

Engine Speed	Overload Capacity		Prime Power	
r/min	kW	bhp	kW	bhp
1800	317	425	287	385

Engine Performance Data @ 1800 r/min

OUTPUT POWER			FUEL CONSUMPTION			
%	kW	bhp	kg/kW.h	lb/bhp.h	l/hr	gal/hr
10% Overload Capacity						
110	317	425	0.206	0.334	77.0	20.0
Prime Power						
100	287	385	0.207	0.341	70.0	18.5
75	215	289	0.211	0.347	53.5	14.1
50	144	193	0.217	0.359	36.8	9.7
25	72	96	0.233	0.385	19.8	5.2



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.: D(M)-168
DS: DS-D093641
CPL: CQ125
DATE: 10-Sep-08

General Engine Data¹

Engine Model.....	NTA855-D(M)	
Rating Type	Prime Power	Overload
Rated Engine Power..... hp [kW]	385 [287]	425 [317]
Governed Engine Speed..... rpm	1800	1800
Rated HP Production Tolerance.....	±2%	
Rated Engine Torque.....lb. ft. [N·m]	1240 [1682]	
Idle Speed Range..... rpm	575-650	
Brake Mean Effective Pressure..... psi [kPa]	198 [1367]	219 [1510]
Compression Ratio	14.5:1	
Piston Speed..... ft/min [m/sec]	1795 [9.12]	
Friction Power..... hp [kW]	47 [35]	

Fuel System¹

Fuel Consumption.....gal/hr [l/hr]	18.5 [70]	20 [77]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	55 [210]	61 [231]
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]	235 [1619]	

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. 56 [190]	
Intake Air Flow.....cfm [l/sce]	900 [425]	981 [463]
Heat Rejection to Ambient.....BTU/min [kW]	1935 [34]	2163 [38]

Exhaust System¹

Exhaust Gas Flow.....cfm [l/sec]	2182 [1030]	2648 [1250]
Exhaust Gas Temperature (Turbine Out).....°F [°C]	937 [503]	970 [521]
Heat Rejection to Exhaust.....BTU/min [kW]	9733 [171]	10758 [189]

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]	62 [234]	
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]	11669 [205]	12921 [227]

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).

CHONGQING CUMMINS ENGINE CO. LTD.

CHONGQING, P.R.CHINA, 400031

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