CCEC	CHONGQING CUMMINS ENGINE PERFORMANCE CURVE	Engine Model NT855-D(M)	Curve No. D(M)-183	
		Configuration D092642MX02	CPL Code CQ138	Date 11-Sep-08

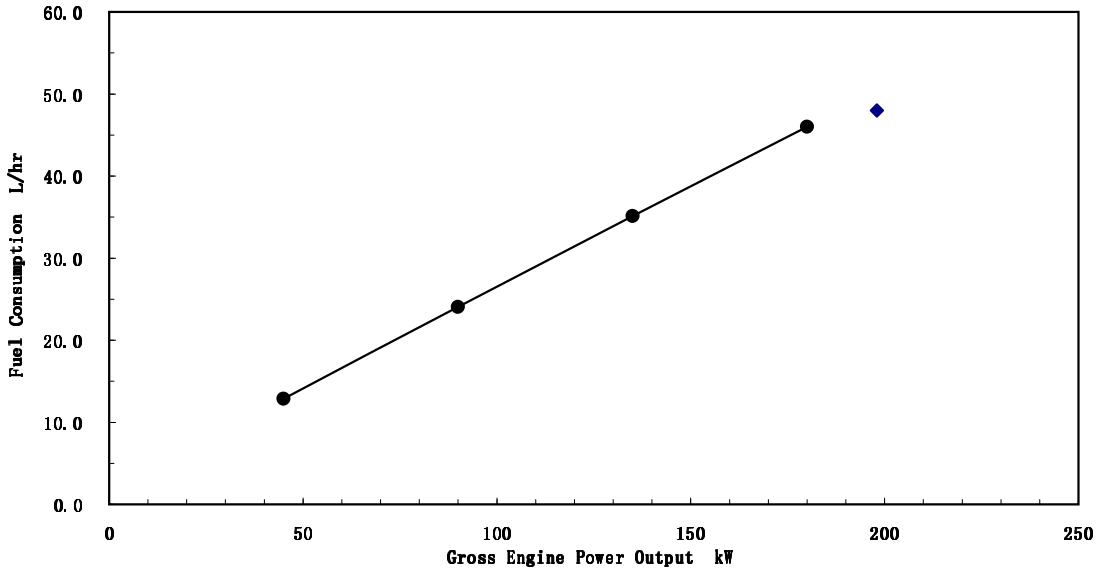
Displacement:	**14L**	**[855 in.^{3}]**		**kW [HP] @ r/min**
Bore:	**140mm**	**[5.50 in.]**	Prime Power:	**180 [241] @1500**
Stroke:	**152mm**	**[6.00in.]**		
Fuel System:	**PT**		Aspiration:	**Turbocharged**
Cylinders:	**6**		Exhaust:	**Wet**

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
1500	198	265	180	241

Engine Performance Data @ 1500 r/min

OUTPUT POWER			FUEL CONSUMPTION			
%	kW	bhp	kg/kW.h	lb/bhp.h	l/hr	gal/hr
10% Overload Capacity						
110	198	265	0.206	0.348	48.0	13.0
Prime Power						
100	180	241	0.217	0.359	46.0	12.2
75	135	181	0.221	0.365	35.1	9.3
50	90	121	0.227	0.374	24.1	6.4
25	45	60	0.243	0.401	12.9	3.4



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)-183**
DS:	**DS-D093641**
CPL:	**CQ138**
DATE:	**11-Sep-08**

General Engine Data[1]			
Engine Model		NT855-D(M)	
Rating Type		Prime Power	Overload
Rated Engine Power	hp [kW]	241 [180]	265 [198]
Governed Engine Speed	rpm	1500	1500
Rated HP Production Tolerance		±2%	
Rated Engine Torque	lb.·ft. [N·m]		929 [1260]
Idle Speed Range	rpm	575-650	
Brake Mean Effective Pressure	psi [kPa]	149 [1029]	164 [1131]
Compression Ratio		14.5:1	
Piston Speed	ft/min [m/sec]	1496 [7.6]	
Friction Power	hp [kW]	29 [22]	
Fuel System[1]			
Fuel Consumption	gal/hr [l/hr]	12.2 [46]	13 [48]
Approximate Fuel Flow to Pump	gal/hr [l/hr]	36 [138]	38 [144]
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]		104 [717]
Weight [1]			
Dry - Engine Only	lb. [kg]	2797 [1270]	
Dry - Engine With Heatexchanger	lb. [kg]	3051[1385]	
Installation Diagram No.		4914571	
Hookup Diagram & Drawing, electrical circuit No.		4915106、4915136	
Air System[1]			
Intake Manifold Pressure	in. Hg [kPa]	N.A.	28 [95]
Intake Air Flow	cfm [l/sce]	591 [279]	638 [301]
Heat Rejection to Ambient	BTU/min [kW]	1195 [21]	1366 [24]
Exhaust System[1]			
Exhaust Gas Flow	cfm [l/sec]	1546 [730]	1652 [780]
Exhaust Gas Temperature (Turbine Out)	°F [°C]	799 [426]	817 [436]
Heat Rejection to Exhaust	BTU/min [kW]	6090 [107]	6717 [118]
Cooling System[1]			
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[3]	BTU/min [kW]	7286 [128]	8083 [142]

TBD = To Be Determined N/A = Not Applicable N.A. = Not Avaliable

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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