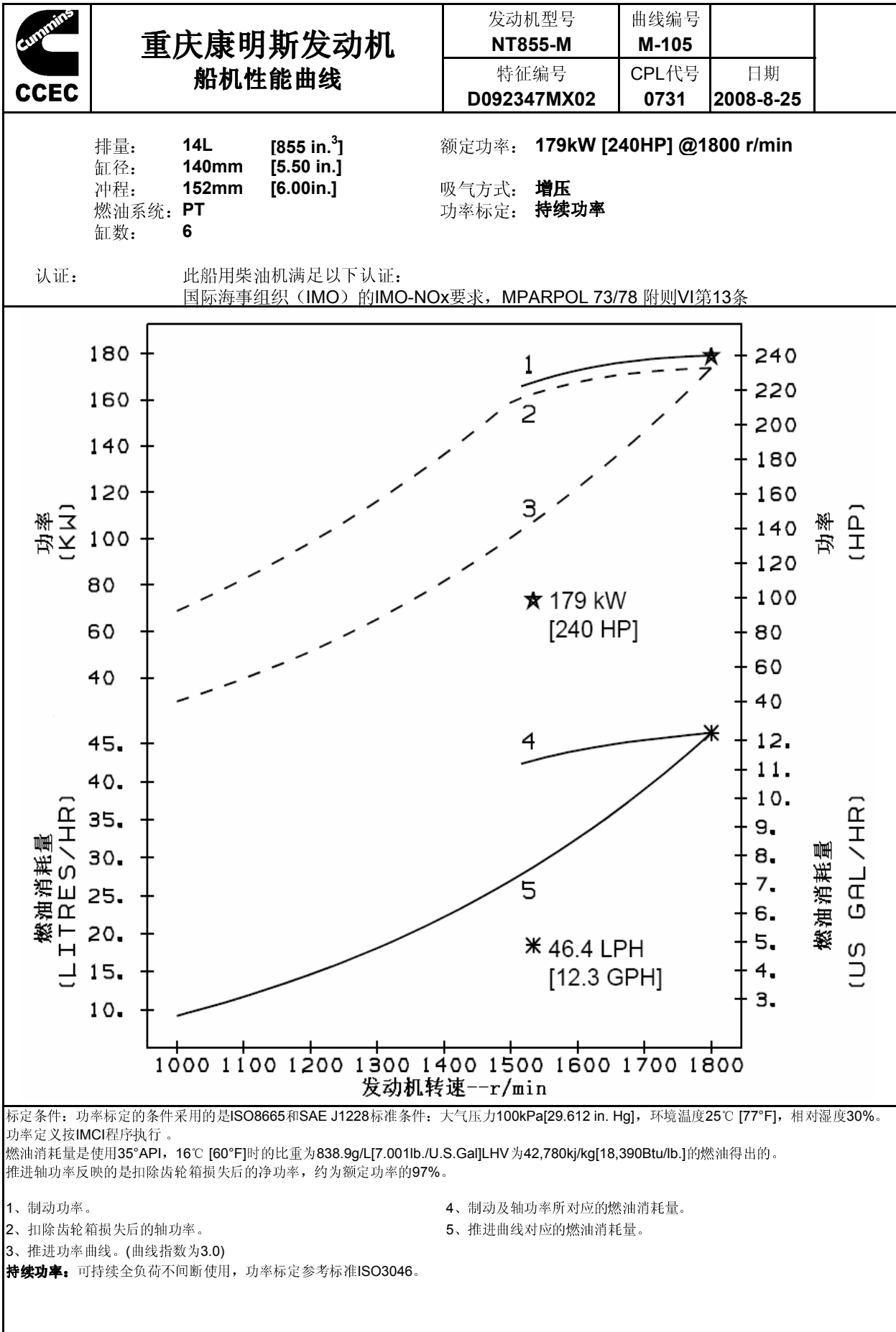






重庆康明斯发动机有限公司

船舶推进用发动机性能数据

性能曲线: M-105
数据单: DS-4962
CPL: 0731
日期: 2008-8-25

整机数据

发动机型号.....	NT855-M
功率标定方式.....	持续功率
额定功率.....kW [hp]	179 [240]
额定功率转速.....rpm	1800
在1300 rpm时的最大扭矩.....N·m [lb·ft.]	1044 [770]
平均有效压力.....kPa [psi]	852 [123]
最低怠速设定.....rpm	575-675
一般转速波动量.....±rpm	50
高怠速范围	最低.....rpm 1962
	最高.....rpm 2106
进气方式.....	增压
压缩比.....	14.5:1
活塞速度.....m/sec [ft/min]	9.1 [1791]
干重——仅发动机.....kg [lb.]	1258 [2771]
干重——带热交换器.....kg [lb.]	1385 [3051]
安装图号.....	4061292

燃油系统¹

额定转速燃油消耗量.....l/hr [gal/hr]	47 [12]
到燃油泵的近似燃油量.....l/hr [gal/hr]	141 [37]
最高允许燃油泵进油温度.....°C [°F]	71 [160]
流回油箱的近似燃油温度.....°C [°F]	不可用
最大对回油的传热量.....kW [BTU/min]	不可用
燃油压力——油泵出口/油道	机械表.....kPa [psi] 579 [84]

进气系统¹

进气歧管压力.....kPa [in. Hg]	68 [20]
进气流量.....l/sec [cfm]	270 [572]
对环境辐射散热量.....kW [BTU/min]	23 [1309]

排气系统¹

排气流量.....l/sec [cfm]	590 [1250]
排气温度(增压器出口).....°C [°F]	382 [720]
排气温度(排气歧管).....°C [°F]	532 [990]

冷却系统¹

海水泵规范.....	MAB 0.08.17-07/16/2001
压力盖开启压力.....kPa [psi]	50 [7]

无低温中冷(LTA)的发动机

水空中冷的发动机

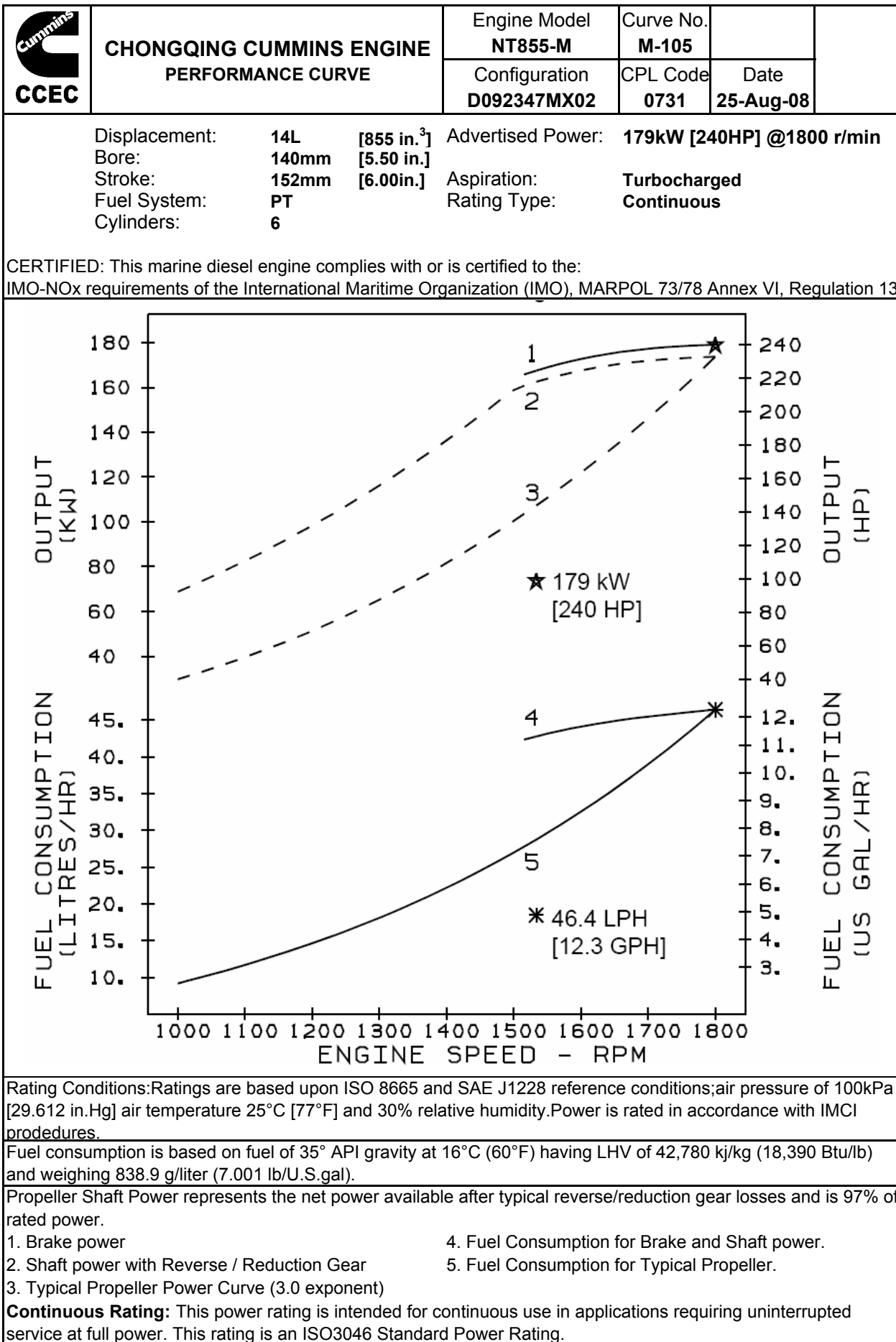
流入热交换器的冷却水流量.....l/min [gal/min]	317 [84]
标准节温器的工作温度范围(初开).....°C [°F]	82 [180]
标准节温器的工作温度范围(全开).....°C [°F]	94 [201]
对发动机冷却水的散热量 ³kW [BTU/min]	153 [8709]

- 1、所有数据均为额定条件下。
- 2、有关限制性的要求，请参阅安装指南。
- 3、对冷却液的传热量是基于50%的水与50%乙二醇的混和溶液测量的。
- 4、有关可选的康明斯海水泵的流量规范（如适用的话），请参考选用件说明。

重庆康明斯发动机有限公司

中国，重庆，400031

以上参数更改恕不通知。请咨询重庆康明斯以获得最新数据。





Chongqing Cummins Engine Co. Ltd.

Propulsion Marine Engine Performance Data

Curve No.: M-105
DS: DS-4962
CPL: 0731
DATE: 25-Aug-08

General Engine Data

Engine Model.....	NT855-M
Rating Type	Continuous
Rated Engine Power..... hp [kW]	240 [179]
Rated Engine Speed.....rpm	1800
Peak Engine Torque @ 1300 rpm..... lb.·ft. [N·m]	770 [1044]
Brake Mean Effective Pressure.....psi [kPa]	123 [852]
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 System¹

Fuel Consumption at Rated Speed.....gal/hr [l/hr]	12 [47]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	37 [141]
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]	84 [579]

Air System¹

Intake Manifold Pressure.....in. Hg [kPa]	20 [68]
Intake Air Flow.....cfm [l/sce]	572 [270]
Heat Rejection to Ambient.....BTU/min [kW]	1309 [23]

Exhaust System¹

Exhaust Gas Flow.....cfm [l/sec]	1250 [590]
Exhaust Gas Temperature (Turbine Out)..... ° F [° C]	720 [382]
Exhaust Gas Temperature (Manifold)..... ° F [° C]	990 [532]

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]	84 [317]
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 ³ BTU/min [kW]	8709 [153]

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 .