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Engine Model
NTA855-M

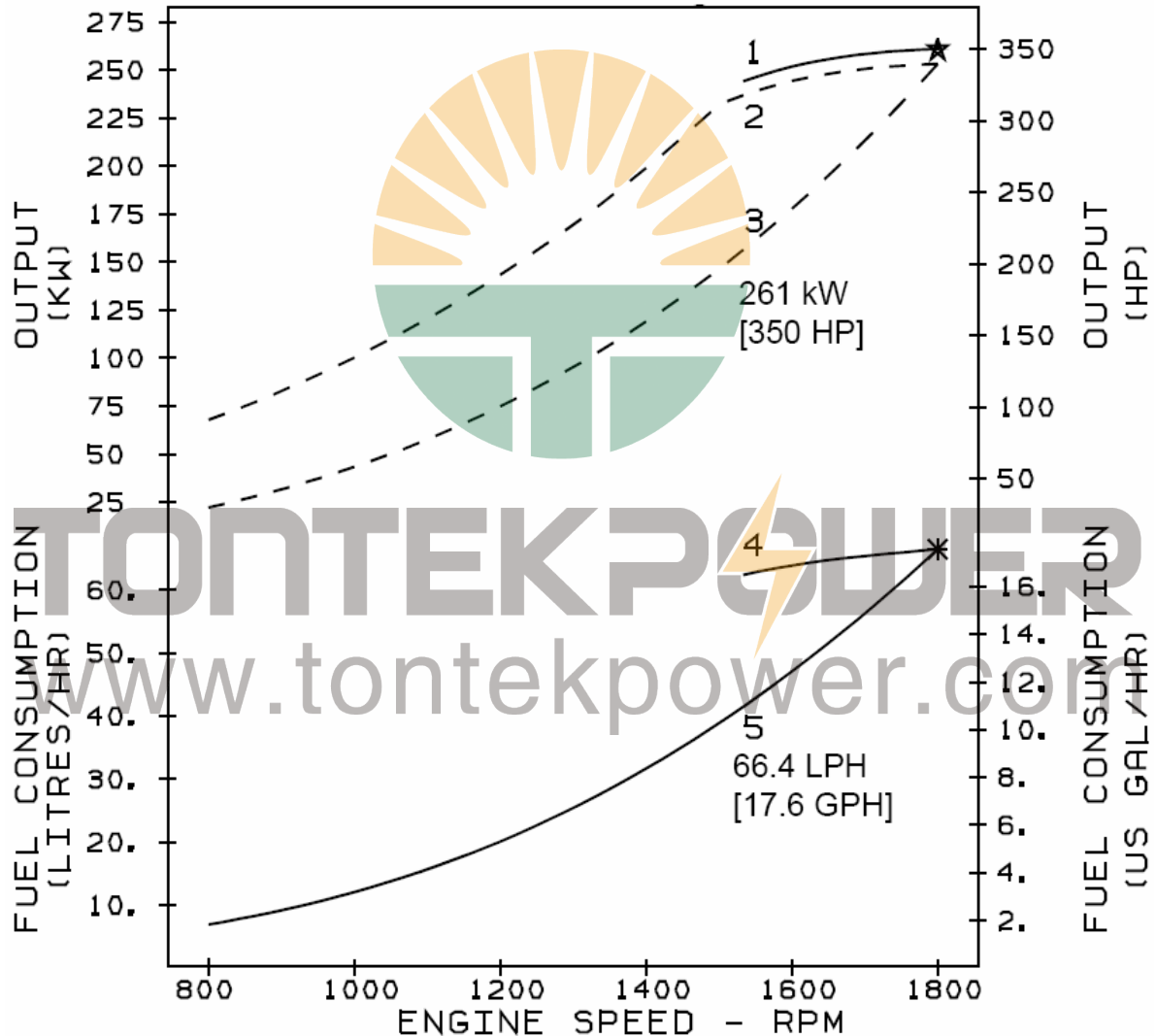
Advertised Power: **261kW [350HP] @1800 r/min**

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

Aspiration: **Turbocharged/Aftercooled**
Rating Type: **Continuous**

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 procedures.

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.



General Engine Data

Engine Model.....	NTA855-M
Rating Type	Continuous
Rated Engine Power..... hp [kW]	350 [261]
Rated Engine Speed..... rpm	1800
Peak Engine Torque @ 1500 rpm..... lb.·ft. [N·m]	1021 [1385]
Brake Mean Effective Pressure..... psi [kPa]	180 [1243]
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/Aftercooled
Compression Ratio	14.5:1
Piston Speed..... ft/min [m/sec]	1791 [9.1]
Weight (Dry) - Engine Only - Average..... lb. [kg]	2870 [1303]
Weight (Dry) - Engine With Heatexchanger System - Average..... lb. [kg]	3150 [1430]
Installation Diagram No.....	4061358

Fuel System¹

Fuel Consumption at Rated Speed..... gal/hr [l/hr]	17 [66]
Approximate Fuel Flow to Pump..... gal/hr [l/hr]	52 [198]
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]	162 [1116]

Air System¹

Intake Manifold Pressure..... in. Hg [kPa]	37 [125]
Intake Air Flow..... cfm [l/sec]	805 [380]
Heat Rejection to Ambient..... BTU/min [kW]	1878 [33]

Exhaust System¹

Exhaust Gas Flow..... cfm [l/sec]	1864 [880]
Exhaust Gas Temperature (Turbine Out)..... °F [°C]	801 [427]
Exhaust Gas Temperature (Manifold)..... °F [°C]	1071 [577]

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 (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]	12522 [220]

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).

Tontek Power Limiter

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