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|---|---|---|---------------------------------|---------------------------|
|  | Shanghai Cummins Trade Co., Ltd. Shanghai, China, 200030 Marine Performance Curves | Basic Engine Model: L8.9CMI211G | Curve Number: FR96906 | |
| | | Engine Configuration: D563033MX03 | CPL Code: CPL5570 | Date: 16-Apr-19 |

Displacement: **8.9 liter** **[543 in³]**
Bore: **114 mm** **[4.49 in]**
Stroke: **145 mm** **[5.71 in]**
Fuel System: **HPCR**
Cylinders: **6**

kW [hp] @ rpm
Advised Power: **155[208]@1500**

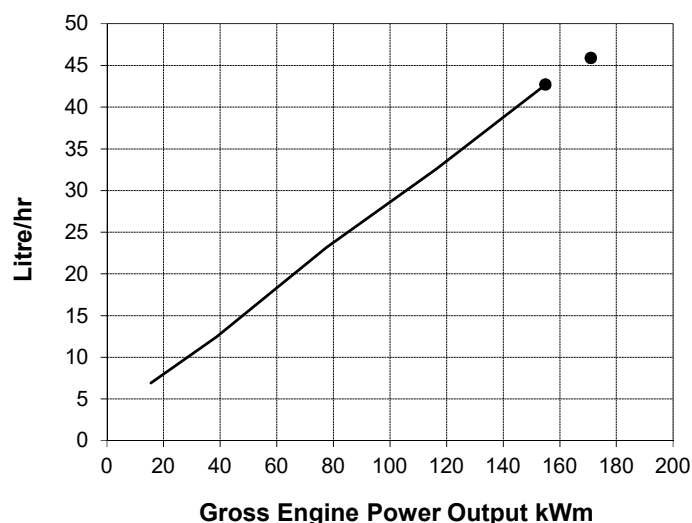
Aspiration: **Turbocharged/Aftercooled**
Exhaust Type: **Dry**

CERTIFIED: This marine diesel engine complies with or is certified to the:
China Marine Emission Regulation Stage II GB15097-2016
IMO Tier II (Two) NOx requirements of International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13

| Engine Speed | Overload Capacity | | Prime Power | | Continuous Power | |
|--------------|-------------------|-----|-------------|-----|------------------|------|
| RPM | kWm | BHP | kWm | BHP | kWm | BHP |
| 1500 | 171 | 229 | 155 | 208 | N.A. | N.A. |

Engine Performance Data @ 1500 rpm

| OUTPUT POWER | | | FUEL CONSUMPTION | | | |
|------------------------------|------|------|------------------|--------------|----------------|-------------------|
| % | kWm | BHP | g/kWh | Lb/ BHP-h | Liter/ hour | U.S. Gal/ hour |
| 10% OVERLOAD CAPACITY | | | | | | |
| 110% | 171 | 229 | 225 | 0.375 | 45.9 | 12.12 |
| PRIME POWER | | | | | | |
| 100% | 155 | 208 | 231 | 0.385 | 42.7 | 11.28 |
| 75% | 116 | 156 | 235 | 0.392 | 32.6 | 8.60 |
| 50% | 78 | 104 | 251 | 0.418 | 23.2 | 6.12 |
| 25% | 39 | 52 | 269 | 0.449 | 12.4 | 3.29 |
| 10% | 16 | 21 | 374 | 0.624 | 6.9 | 1.83 |
| CONTINUOUS POWER | | | | | | |
| 80% | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |



Rating Conditions: Ratings are in accordance with ISO 15550 and ISO 8528-5 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 No. 2 diesel fuel weight at 0.84 kg/liter (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.

Unless otherwise specified, all data is at rated power conditions and can vary $\pm 5\%$.

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 80% 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.



TECHNICAL DATA DEPT.

APPLICATION ENGINEER