

CHONGQING CUMMINS ENGINE PERFORMANCE CURVE

 Engine Model
 Curve No.

 KTA38-D(M)
 D(M)-645

 Configuration
 CPL Code
 Date

 D233037MX02
 CQ607
 11-Dec-08

Displacement: 38L [2300 in.³] kW [HP] @ r/min Bore: 159mm [6.25 in.] Prime Power: 664 [890] @1500

Stroke: 159mm [6.25 in.]

Fuel System: PT Aspiration: Turbocharged/Aftercooled

Cylinders: 12 Exhaust: Dry

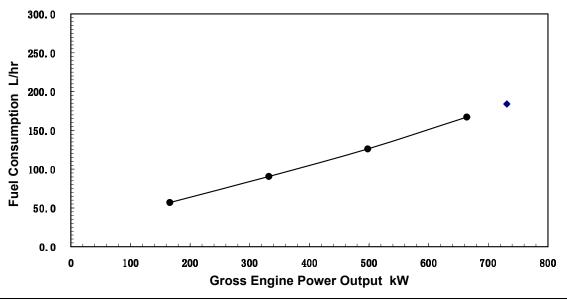
CERTIFIED: This marine diesel engine complies with or is certified to the:

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 | 731 | 980 | 664 | 890 |

Engine Performance Data @ 1500 r/min

| Zinginio i di formando Bata @ 1000 mini | | | | | | | | |
|---|-----|------------------|---------|----------|-------|--------|--|--|
| OUTPUT POWER | | FUEL CONSUMPTION | | | | | | |
| % | kW | bhp | kg/kW.h | lb/bhp.h | l/hr | gal/hr | | |
| 10% Overload Capacity | | | | | | | | |
| 110 | 731 | 980 | 0.214 | 0.355 | 184.0 | 49.0 | | |
| Prime Pov | wer | | | | | | | |
| 100 | 664 | 890 | 0.214 | 0.352 | 167.0 | 44.1 | | |
| 75 | 498 | 668 | 0.215 | 0.354 | 126.0 | 33.3 | | |
| 50 | 332 | 445 | 0.232 | 0.382 | 90.6 | 23.9 | | |
| 25 | 166 | 223 | 0.291 | 0.479 | 56.8 | 15.0 | | |



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.