

CHONGQING CUMMINS ENGINE CO.,Ltd.

CHONGQING, P.R.CHINA, 400031

Marine Performance Curves

 K50-M
 M

 Engine Configuration
 CPL Code

 D283033MX02
 5492

Basic Engine Model

M-6101 de: Date:

33MX02 5492 4-Jul-19

 Displacement:
 50.2 liter
 [3066 in³]

 Bore:
 159 mm
 [6.25 in]

 Stroke:
 159 mm
 [6.25 in]

Rated Power: Rated Speed: Rating Type: 1193 kW [1600 bhp] 1800 rpm Continuous Duty Turbocharged / LTA

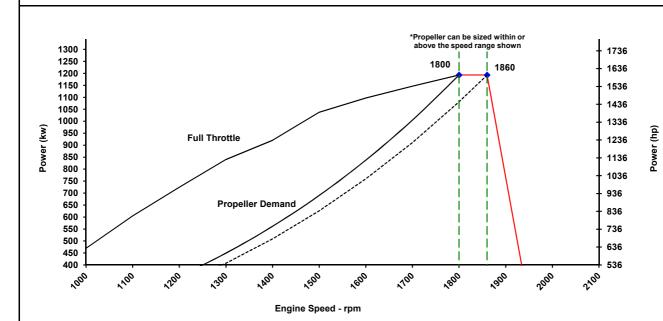
Cylinders: 16

Aspiration:

Fuel System: PT (V.S/AFC)

CERTIFIED: This diesel engine complies with or is certified to the following agencies requirements:

Limits and measurement methods for exhaust pollutants from marine engines(CHINA I)



Propeller Demand Full Throttle Speed Powe Power Torque Fuel Consumption Torque (ft-lb) (ft-lb) L/hr (gal/hr) kw (hp) N·m kw (hp) N·m 1860 1194 (1600) 6125 (4668)1800 1194 (1600)6329 (4668)1193 (1,599.5)6329 (4668)299.4 (79.1)1005 1700 1147 (1538)6441 (4751)(1.347.5)5644 (4163)178 7 (47.2)1600 1097 (1471)6547 (4829)838 (1,123.4)4999 (3687)154.8 (40.9)1038 690 4394 128.7 1500 (1392)6608 (4874)(925.6)(3241)(34)1400 921 (1235)6283 (4634)561 (752.6)3827 (2823)109.8 (29)1300 840 (1127)6175 (4555) 449 (602.6)3300 (2434)85.9 (22.7)1200 724 (971)5764 (4251)353 (473.9)2812 (2074)66.6 (17.6)1100 604 (810) 5242 (3866)272 (365.0)2363 (1743)1000 469 (629)4475 (3301)205 (274.3)1952 (1440)900 149 (199.9)1582 (1167)800 105 1250 (140.4)(922)

* Cummins Full Throttle Requirements:

- Engine achieves or exceeds rated rpm at full throttle under any steady operating condition
- Engines in variable displacement boats (such as pushboats, tugboats, net draggers, etc.) achieve no less than 100 rpm below rated speed at full throttle during a dead push or bollard pull
- Engine achieves or exceeds rated rpm when accelerating from idle to full throttle

Rated Conditions: Ratings are based upon ISO 15550 reference conditions; air pressure of 100 kPa [29.612 in Hg], air temperature 25deg. C [77 deg. F] and 30% relative humidy. Member NMMA. Unless otherwise specified, tolerance on all values is +/-5%. Values from engine control modules and displayed on instrument panels are not absolute. Tolerance varies, but is generally less than +/-5% when operating within 30% of rated power.

Full Throttle curve represents power at the crankshaft for mature gross engine performance corrected in accordance with ISO 15550. Propeller Curve represents approximate power demand from a typical propeller. Propeller Shaft Power is approximately 3% less than rated crankshaft power after typical reverse/reduction gear losses and may vary depending on the type of gear or propulsion system used.

Fuel Consumption is based on fuel of 35 deg. API gravity at 16 deg C [60 deg. F] having LHV of 42,780 kj/kg [18390 Btu/lb] and weighing 838.9 g/liter [7.001 lb/U.S. gal].

Continuous Rating (CON): Intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO 15550 standard power rating.

CHIEF ENGINEER