



CUMMINS MERCUISER DIESEL
 Charleston, SC 29405
Marine Performance Curves

Basic Engine Model:
1.7L 120 MI

Engine Configuration:
D923001MX03

Curve Number:
BC-9101

Inboard

Date:
22-Oct-04

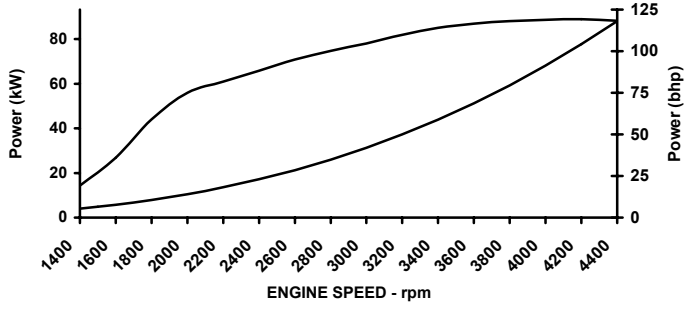
Displacement: **1.7 liter [103 in³]**
 Bore: **79 mm [3.11 in]**
 Stroke: **86 mm [3.39 in]**
 Fuel System: **Direct Injection W/ Bosch VE Pump**
 Cylinders: **4**

Advertised Power: **88 [118, 120] @ 4400**
 kW [bhp, mhp] @ rpm

Aspiration: **Turbocharged / Sea Water Aftercooled**
 Rating Type: **High Output**

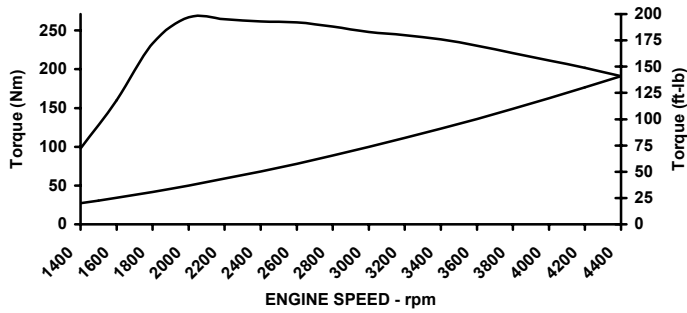
CERTIFIED: This marine diesel engine conforms with the NOx requirements of the International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13 as applicable.

PRELIMINARY



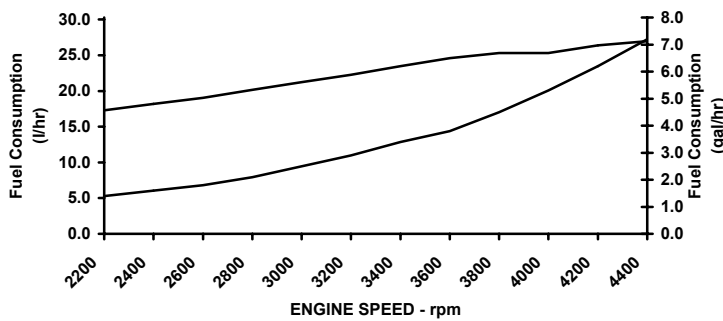
RATED POWER OUTPUT CURVE

rpm	kw	bhp
4400	88	118
4200	89	119
3800	88	118
3600	87	117
3200	82	110
3000	78	105
2800	75	100
2400	66	88
2200	61	82
1800	44	59
1600	27	36
1400	14	19



FULL LOAD TORQUE CURVE

rpm	N-m	ft-lb
4400	191	141
4200	202	149
3800	221	163
3600	230	170
3200	244	180
3000	248	183
2800	255	188
2400	262	193
2200	264	195
1800	233	172
1600	160	118
1400	98	72



FUEL CONSUMPTION - PROP CURVE

rpm	l/hr	gal/hr
4400	27.3	7.2
4200	23.5	6.2
4000	20.1	5.3
3800	17.0	4.5
3600	14.4	3.8
3400	12.9	3.4
3000	9.5	2.5
2800	7.9	2.1
2600	6.8	1.8
2400	6.1	1.6
2200	5.3	1.4

Rated Conditions: Ratings are based upon ISO 8665 and Sae J1228 reference conditions; air pressure of 100 kPa [29.612 in Hg], air temperature 25deg. C [77 deg. F] and 30% relative humidity. Power is in accordance with IMCI procedure. Member NMMA.

Rated Curves (upper) represents rated power at the crankshaft for mature gross engine performance capabilities obtained and corrected in accordance with ISO 3046. Propeller Curve (lower) is based on a typical fixed propeller demand curve using a 2.7 exponent. 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].

High Output Rating: This Rating is for use in variable load applications where full power is limited to one (1) hour out of every eight (8) hours of operation. Also, reduced power operations must be at or below 200 RPM of the maximum rated RPM. This rating is for pleasure/non-revenue generating applications that operate 300 hours per year.

CHIEF ENGINEER

