Shanghai Cummins Trade Co., Ltd. Shanghai, China, 200030 Marine Performance Curves	Basic Engine Model: **B3.9CMII82G**	Curve Number: **FR96903**		
	Engine Configuration: **D403074MX03**	CPL Code: **CPL5572**	Date: **16-Apr-19**	

Displacement: **3.9 liter** **[239 in³]**
Bore: **102 mm** **[4.02 in]**
Stroke: **120 mm** **[4.72 in]**
Fuel System: **HPCR**
Cylinders: **4**

kW [hp] @ rpm
Advertised Power: **60[80]@1500**

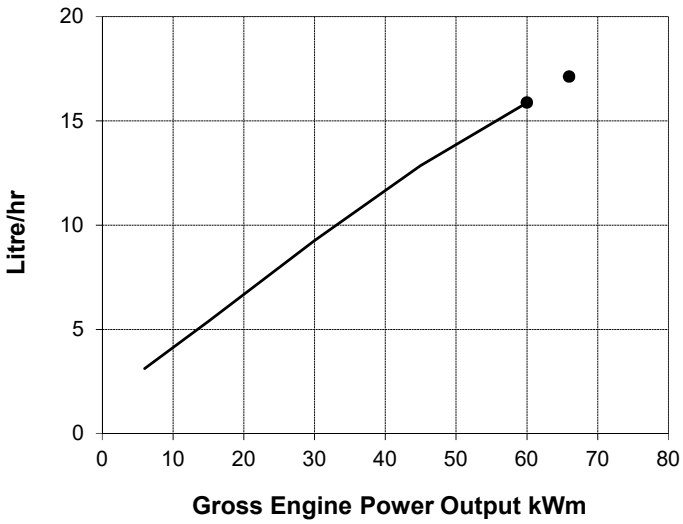
Aspiration: **Turbocharged/Aftercooled**
Exhaust Type: **Dry**

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	66	88	60	80	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%	66	88	218	0.363	17.1	4.52
PRIME POWER						
100%	60	80	222	0.370	15.9	4.19
75%	45	60	240	0.400	12.9	3.39
50%	30	40	259	0.432	9.3	2.45
25%	15	20	302	0.504	5.4	1.43
10%	6	8	439	0.732	3.1	0.82
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 ± 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