

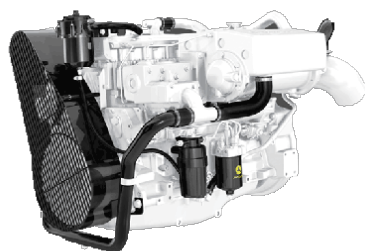
PowerTech™

6068SFM85 Diesel Engine

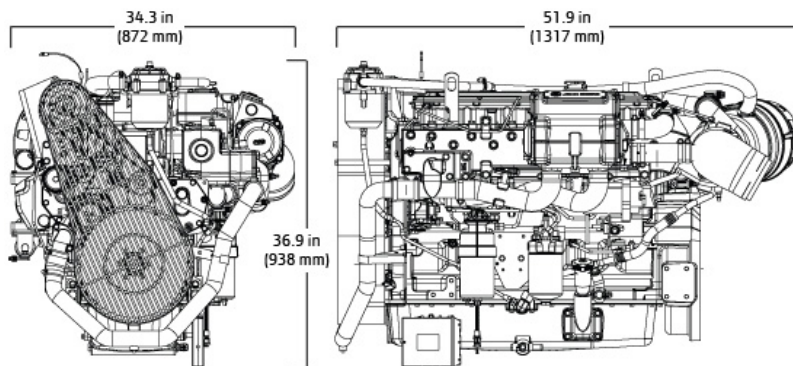
Propulsion Engine Specifications



Dimensions



6068SFM85 shown



Certifications

EPA Commercial Marine Tier 3

IMO MARPOL Annex VI Compliant

NRMM (97/68/EC) as amended

General data

Model	6068SFM85	Length - mm (in)	1317 (51.9)
Number of cylinders	6	Width - mm (in)	872 (34.3)
Displacement - L (cu in)	6.8 (415)	Height, Centerline to Top-- mm. (in)	645 (25.4)
Bore and Stroke-- mm (in)	106 x 127 (4.17 x 5.00)	Height, Centerline to Bottom-- mm. (in)	293 (11.5)
Compression Ratio	16.3:1	Weight, dry-- kg (lb)	0 (0)
Engine Type	In-line, 4- Cycle	Maximum Installed Angle	Front Up – degrees 12
Aspiration	Air-to-sea water		Front Down – degrees 0

Features and benefits

Watercooled Turbocharger and Exhaust Manifold

- A true marine wet turbocharger and wet exhaust manifold lowering surface and engine room temperatures
- Integrated components reduce external connections, hose and fitting that can leak or break

Replaceable Wet-type Cylinder Liners

- Hardened and precision machined for long life
- Rebuild to original specifications

High Pressure Common Rail Fuel System

- High pressure common rail fuel system provides high performance, excellent fuel economy, and low emissions
- Electronic transfer pump provides self-priming fuel system for ease of maintenance

Heat Exchanger

- Seawater aftercooled for increased power and efficiency

High Torque and Low Rated RPM

- Excellent vessel control and maneuvering
- Lower rated rpm limits vibration and noise for better crew comfort

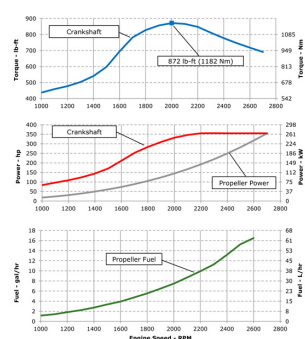
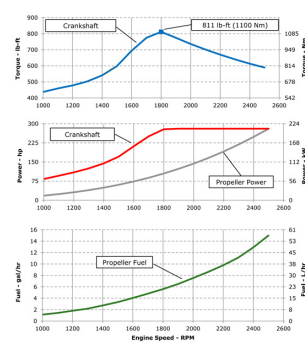
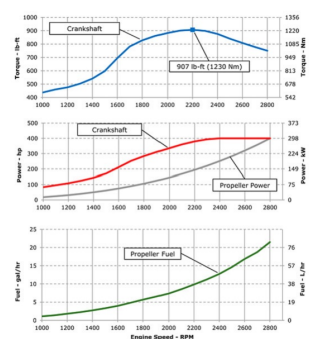
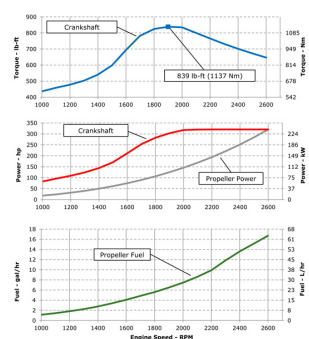
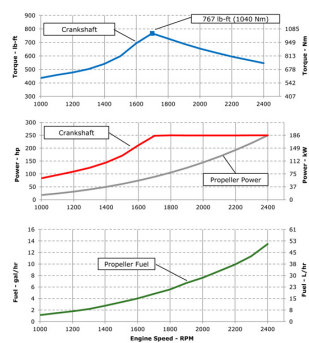
Corrosion Resistant Components

- Provides engine protection from the effects of seawater

John Deere Electronic Control Systems

- Advanced fault code diagnostics and customizable engine protections ensure reliability and uptime
- Highly customizable features and trim to integrate your vessel and meet specific application needs

Performance curve



Performance data	M5	M4	M3	M2	M1
Rated Power - kW (hp)	298 (400)	265 (355)	239 (321)	209 (280)	186 (249)
Rated Speed - rpm	2800	2700	2600	2500	2400
Low Idle Speed - rpm	600	600	600	600	600
Peak Torque - Nm (ft-lb)	1230 (907)	1182 (872)	1137 (839)	1100 (811)	1040 (767)
Peak Torque Speed - rpm	2200	2000	1900	1800	1700
Fuel Consumption - L/h (gal/hr)	81.3 (21.5)	69.3 (18.3)	63.3 (16.7)	56.7 (15.0)	51.1 (13.5)

M rating	M5	M4	M3	M2	M1
Typical load factor	<=35%	<=40%	<=50%	<=65%	> 65%
Typical annual usage (hr)	300-1,000 hr	1,000-3,000 hr	2,000-4,000 hr	3,000-5,000 hr	Unrestricted
Typical full-power operation (hr)	0.5 of each 8 hr	1 of each 12 hr	4 of each 12 hr	16 of each 24 hr	Uninterrupted

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*All values at rated speed and power with standard options unless otherwise noted.
 Specifications and design subject to change without notice.*