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242-410 kW (325-550 hp)

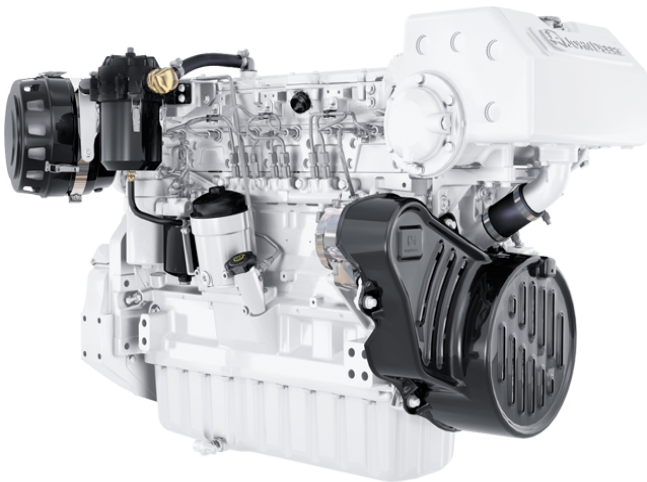
6090S

9.0L Propulsion Engine 242-410 kW (325-550 hp)

Features & Specs

- Watercooled Turbocharger and Exhaust Manifold
- Directed Top-liner Cooling
- Replaceable Wet-type Cylinder Liners
- Gear Auxiliary Drive

Rated speed (rpm)	2100-2500
Number of cylinders	6
Engine type	In-line, 4-Cycle
Bore and stroke (mm)	118 x 136



Overview

PowerTech™ 9.0L Marine Propulsion Engine

242 – 410 kW
(325 – 550 hp)



The 9.0L is a 6-cylinder marine engine cooled by sea water through a heat exchanger. It is turbocharged and aftercooled and has a water jacketed exhaust manifold and turbocharger housing. The engine features constant power to 400 rpm below rated speed making it an excellent choice for patrol craft, launches, work boats, fishing boats, trawler yachts, and sport fishing boats. This engine meets Environmental Protection Agency Marine Tier 2 emissions and is MARPOL Annex VI compliant.

Specifications

Emissions certifications

EPA Commercial Marine Tier 2	---
IMO MARPOL Annex VI Compliant	---
NRMM (97/68/EC)	---

General engine data

Model	6090SFM75
Number of cylinders	6
Displacement-- L (cu in)	9.0 (549)
Bore and Stroke-- mm (in)	118.4 x 136 (4.66 x 5.35)
Compression Ratio	16.0 : 1
Engine Type	In-line, 4- Cycle
Aspiration	Air-to-sea water
Length - mm (in)	1714 (67.5)
Width-- mm (in)	975 (38.4)
Height, Centerline to Top-- mm. (in)	662 (26.1)
Height, Centerline to Bottom-- mm. (in)	320 (12.6)
Weight, dry-- kg (lb)	1066 (2350)
Max installed angle Front Up - degrees	12
Max installed angle Front Down - degrees	0

Performance Data

M1	
Rated Power - kW (hp)	242 (325)

Rated Speed - rpm	2100
Low idle speed - rpm	650
Peak Torque - Nm (ft-lb)	1444 (1065)
Peak Torque Speed - rpm	1600
Fuel Consumption - L/h (gal/hr)	62.7 (16.6)
M2	
Rated Power - kW (hp)	280 (375)
Rated Speed - rpm	2200
Low idle speed - rpm	650
Peak Torque - Nm (ft-lb)	1573 (1160)
Peak Torque Speed - rpm	1700
Fuel Consumption - L/h (gal/hr)	70.9 (18.7)
M3	
Rated Power - kW (hp)	317 (425)
Rated Speed - rpm	2300
Low idle speed - rpm	650
Peak Torque - Nm (ft-lb)	1718 (1267)
Peak Torque Speed - rpm	1700
Fuel Consumption - L/h (gal/hr)	80.4 (21.2)
M4	
Rated Power - kW (hp)	373 (500)
Rated Speed - rpm	2400
Low idle speed - rpm	650
Peak Torque - Nm (ft-lb)	1755 (1294)
Peak Torque Speed - rpm	1800
Fuel Consumption - L/h (gal/hr)	94.0 (24.8)
M5	
Rated Power - kW (hp)	410 (550)
Rated Speed - rpm	2500
Low idle speed - rpm	650
Peak Torque - Nm (ft-lb)	1832 (1351)
Peak Torque Speed - rpm	1900
Fuel Consumption - L/h (gal/hr)	108.0 (28.5)

M rating

M1	
Typical load factor	>65%
Typical annual usage (hr)	Unrestricted
Typical full-power operation (hr)	Uninterrupted
M2	
Typical load factor	≤65%
Typical annual usage (hr)	3,000-5,000 hr
Typical full-power operation (hr)	16 of each 24 hr
M3	
Typical annual usage (hr)	2,000-4,000 hr
Typical full-power operation (hr)	4 of each 12 hr
Typical load factor	≤50%
M4	
Typical load factor	≤40%

Typical annual usage (hr)	1,000-3,000 hr
Typical full-power operation (hr)	1 of each 12 hr
M5	
Typical load factor	$\leq 35\%$
Typical annual usage (hr)	300-1,000 hr
Typical full-power operation (hr)	0.5 of each 8 hr
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Specifications may contain preliminary information. Specifications are subject to change without notice. Contact your John Deere Engine Dealer for more information.

Actual model may vary from the images shown.

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