

Marine Propulsion Engines



C175-16



HIGH POWER HIGH PERFORMANCE

The C175-16 is the first Cat engine with core ACERT™ Technology, designed and built from the ground up. This offers maximum performance along with EPA Marine Tier 3 and IMO Tier II emissions compliance with no aftertreatment. With unrestricted continuous and heavy-duty ratings, you get more power with plenty of room for growth, so you maximize productivity while minimizing cost of ownership.

C175-16 Benefits

FULLY INTEGRATED MARINE POWER SYSTEM

- 13% more power for increased productivity*
- Standard warranty on all factory packaged components

DRIVING DOWN TOTAL COST OF OWNERSHIP

- Wide range of available power ratings
- Emissions compliance with no aftertreatment required
- Cat durability

MAKING YOUR INVESTMENT WORK HARDER

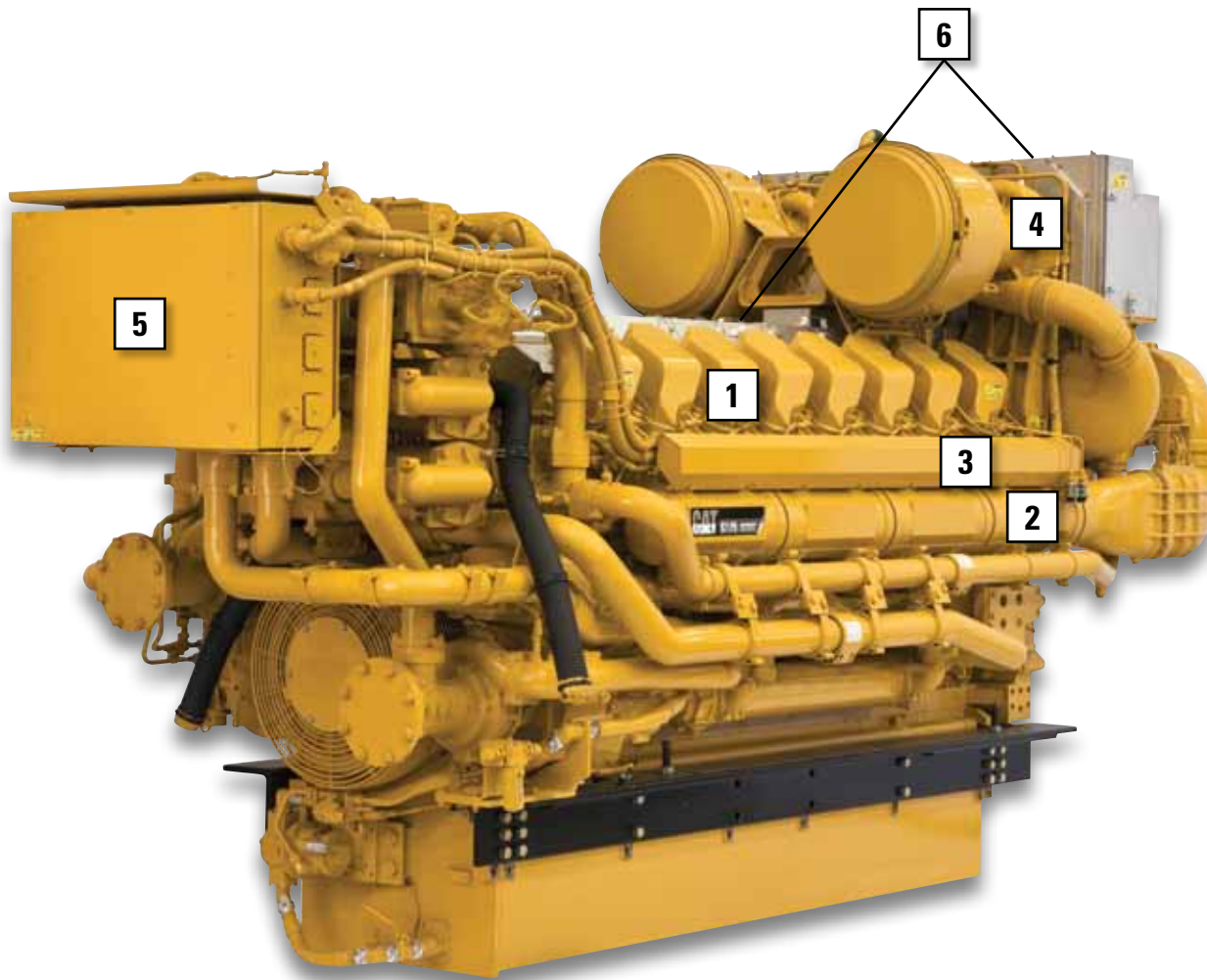
- Designed and sized to allow for greater power output in the future
- Thermo-laminated heat shields save time and money during service

*compared to 3516C-HD A and B Ratings

MARINE PROPULSION RATINGS

Rating	Speed (rpm)	Power (bkW)
A	1600	2001
A	1600	2082
B	1600	2168
A	1800	2239
A	1800	2428
B	1800	2550

CAT® C175-16 ENGINE



1 Caterpillar Common Rail Fuel System

This system features electronically controlled, fully flexible injectors, enabling optimal combustion and low emissions at all levels, along with better transient response.

2 Cross-flow head design

Improved airflow helps the air/exhaust flow meet emissions and optimize fuel consumption.

3 Simplified electrical system

Allows for easy installation and maintenance, reducing up front and service costs.

4 New generation of turbochargers designed specifically for the C175

Cast titanium impeller offers five times longer low-cycle fatigue life, and compressor blades are twice as resistant to high-cycle fatigue.

Turbochargers are mounted on cast pedestals and center-positioned to eliminate external oil drain lines, reduce the chance of oil leaks, and improve turbo efficiency. The flexible bellows connections used on inlets/outlets of the turbine and compressor housings minimize leakage and provide isolation from external vibrations, motions, and thermal expansion.

5 Marine Classification Society approved monitoring, alarm, and protection system

Now offered as a factory-installed and warranted option, saving you money and providing a single source for the whole package.

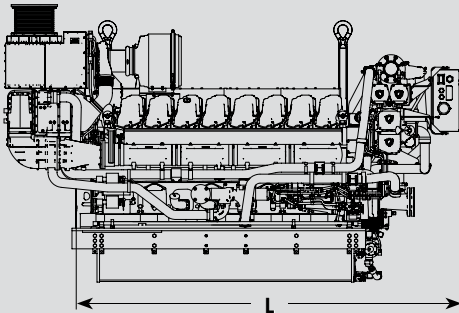
6 Thermo-laminated heat shields for exhaust components

Easier to install and remove than the traditional soft shields, they save time and money during service. The no-gap fitting enhances safety with better hot spot coverage.

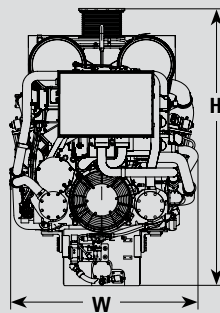
Engine Dimensions

Length	4515 mm (177.8 in)
Width	1845 mm (72.6 in)
Height	2478 mm (97.6 in)
Weight (approx)	13 041 kg (28,750 lb)

Right Side View



Front View



Specifications

Bore	175 mm (6.9 in)
Stroke	220 mm (8.6 in)
Displacement	84.67 L (5166.88 in ³)
Rated Speed	1600 to 1800 rpm
Aspiration	Turbocharged-Aftercooled
Cooling	Jacket Water & SCAC
Refill Capacity	
Lube Oil System	907 L (240 gal)
Cooling System	303.5 L (80.2 gal)
Fuel System	Common Rail
Oil Change Interval	1000 hrs
Rotation (from flywheel end)	Counterclockwise
Flywheel and flywheel housing	SAE No. 00
Flywheel Teeth	183
Engine Management System	A4 ECU
Configuration	V-16, 4-Stroke-Cycle-Diesel



Powerful engine, powerful support.

An integrated approach to products and services and the largest, most responsive support network in the world make Caterpillar your one-source supplier for efficient, reliable power. From the first day on the job throughout your engine's lifecycle, dealer expertise and Cat parts have you covered.

Invest in a powerful solution. Learn more about bringing Cat power aboard. Call your local dealer or visit marine.cat.com today.

Images may not reflect actual engine.
For most current information, please refer to TMI web.

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