



The C32 ACERT marine propulsion engine is available at ratings that meet both EPA Tier 3 and IMO II emissions regulations. It has a separate circuit aftercooling system (SCAC) for A through C ratings and a seawater aftercooling system (SWAC) for D and E ratings. The C32 ACERT has seven ratings with Wide Operating Speed Range (WOSR) and extended oil change intervals. Other benefits include proven engine operating history and performance iron with thousands of validation testing hours for quality and durability. The C32 ACERT marine engine is supported by the extensive Cat global dealer network and standard warranty.

Specifications

Power Rating	
Power Range	750-1800 bhp (559-1342 kW)

Engine Specifications		
Speed Range	1600-2300 rpm	
Emissions	EPA Tier 3, IMO II, EU IW	
Aspiration	TTA	
Bore	145 mm	5.71 in
Stroke	162 mm	6.38 in
Displacement	32.1 L	1959 in ³
Rotation (from flywheel end)	Counterclockwise	
Configuration	Vee 12, 4-Stroke-Cycle Diesel	

Dimensions & Weights		
Minimum Dry Weight	3152 kg	6950 lb
Minimum Length	2121 mm	77.8 in
Maximum Length	2284 mm	83.5 in
Minimum Height	1547 mm	60.9 in
Maximum Height	1587 mm	62.5 in
Minimum Width	1528 mm	60.17 in
Maximum Width	1528 mm	60.17 in

Benefits and Features

Emissions

IMO II/EPA Tier 3 Compliant Ratings

Separate Circuit Aftercooling System (SCAC) for A-C ratings



No seawater circulating through the aftercooling system to prevent corrosion.

Seven Ratings with Wide Operating Speed Range (WOSR)

Full power & torque are available for a broader operating speed range. For example: With an A rating at 1800 rpm - you have full power from 1500 to 1800 rpm.

Extended Oil Change Intervals

A Ratings: 1000 hours, B Ratings: 750 hours, C Ratings: 500 hours

The Cat Global Dealer Network

Extensive service network of CAT dealers as well as unparalleled service from certified authorized marine dealers.

Durability

Proven engine operating history: performance iron with thousands of hours of validation testing for quality and durability

Reliability

Backed by Caterpillar's standard warranty

Standard Equipment

AIR INLET SYSTEM

- Separate Circuit After-Cooled (SCAC)
- Seawater After-Cooling (SWAC) System
- Air cleaner
- Turbochargers, jacket water cooled
- Turbochargers inlet, 152 mm (6 in) OD straight connection

CONTROL SYSTEM

- Programmable Low Idle (550 - 750 rpm)
- WOSR (Wide Operating Speed Range) available for - A, B, & C Ratings
- Programmable High Idle Limit for WOSR Ratings
- Electronic diagnostics and fault logging
- Engine and transmission monitoring (speed, temperature, pressure)
- Electronic fuel/air ratio control
- Engine Protection Mode for extended ambient conditions
- Torque Limiting functionality for WOSR ratings only
- 70-pin customer connector
- Throttle Input signal options

COOLING SYSTEM

- Separate Circuit After-Cooling (SCAC) for Heat Exchanged (HEX) & Keel cooled engines
- Jacket Water (JW) and SCAC Heat Exchangers Shell & Tube for HEX cooled engines
- SCAC pump, gear driven
- Jacket water pump, gear driven
- Sea water pump, bronze impeller, gear driven, for HEX cooled engines only



- Sea water Pump & JW Heat Exchanger Connection: 76.2 mm (3in) ID Standard
- Keel Connections: 76.2 mm (3in) ID Standard 4 Bolt ANSI Flange Connection
- SCAC and JW shunt tanks for maintaining proper pump inlet pressures
- Seawater After-Cooling (SWAC) System

EXHAUST SYSTEM

- 4 Bolt 130 mm (5.12 in) diameter flanged outlet
- Water-cooled exhaust manifold & turbocharger

FLYWHEELS & FLYWHEEL HOUSINGS

- SAE standard rotation (CCW facing exciter end)
- Flywheel Housing: SAE No. 0, Flywheel: 18 inch, 136 teeth

FUEL SYSTEM

- Duplex Fuel Filters, Spin-on, RH & LH service
- Fuel connections size: Supply JIC 37 Deg -10 (7/8-14), Return JIC 37 Deg -8 (3/4-16)
- Plate Type Fuel Cooler installed behind Aftercooler Shunt Tank
- Fuel transfer pump, gear driven
- Manual fuel priming pump
- Hybrid fuel line design

LUBE SYSTEM

- Simplex Oil Filters, RH or LH service
- Deep sump oil pan
- RH or LH service oil filler locations
- RH or LH service dipstick
- Oil pump, gear driven

MOUNTING SYSTEM

- Front support - adjustable

POWER TAKE-OFFS

- Front Poly-V groove pulley (Quantity 1) for auxiliary drives

GENERAL

- Common electrical bonding point
- Engine does not ship with zinc components

Optional Equipment

Air Inlet Systems

- Air Inlet Cleaner
- Air Inlet Adapter

Charging Systems

- Battery Charger
- Charging Alternators

- Ammeter

Cooling System

- Marine Gear/Transmission Oil Coolers
- Connections

Exhaust System

- Dual Elbow
- Flexible Fitting
- Dual Muffler
- Muffler Spark Arresting
- Flange

Fuel System

- Water Separator

Instrumentation

- OEM Wiring Harness
- Engine to Engine Harness
- Instrument Panels
- Exhaust Temperature Sensors
- Wiring Harness
- Gauges
- Transmission Sensors

Lube System

- Transmission Oil Cooler
- Manual Sump Pump
- Duplex Oil Filters

Protection System

- Fuel and Oil Shielding

Starting System

- Air Starting Motor
- Air Start Accessories
- Electric Starting Motors - Single 24 Volt
- Starting Aids
- Battery Sets - 24 Volt - Dry
- Dual Starting Motors (Electric and Air)

Packing

- Engine Protective Cover
- Export Packing
- Storage Preservation

Mounting System



- Front Support
- Adapter Kits
- Isolator Mounts

Power Take-Offs

- Front Enclosed Clutches
- Rear Hydraulic Pump Drive

GENERAL

- Fumes Disposal

CONTROL SYSTEM

- Instrument Panels
- CATERPILLAR ALARM AND PROTECTION
- Fuel and Oil Shielding

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