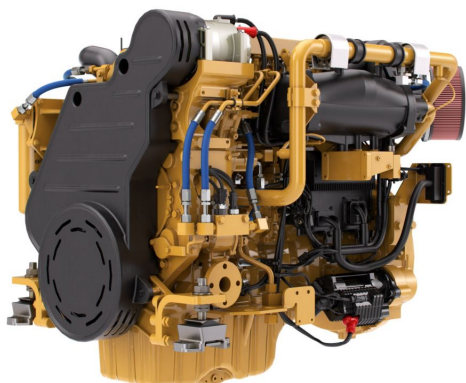




The C9.3 propulsion, auxiliary, and generator set engines have a common rail fuel system for optimal combustion and lower emissions. Cooling system options for the propulsion and auxiliary engines include heat exchanger with sea water aftercooling, and keel with combined circuit or separate circuit aftercooling. The genset packages are available with heat exchanger, keel, or radiator cooling. These products are EPA Tier 3 and IMO II certified. In addition the propulsion engine ratings are EU Stage IIIA certified and auxiliary and gen sets are also CCNR Stage II certified.

Specifications

Power Rating		
Minimum Rating	218 bkW	292 bhp
Maximum Rating	325 bkW	436 bhp

Engine Specifications		
Configuration	In-Line 6, 4-Stroke-Cycle Diesel	
Aspiration	TA	
Bore	115 mm	4.53 in
Stroke	149 mm	5.87 in
Displacement	9.3 L	568 in ³
Rotation (from flywheel end)	Counterclockwise	

Dimensions & Weights		
Length of Engine	1452 mm	57.2 in
Width of Engine	978 mm	38.5 in
Height	1093 mm	43 in
Engine Dry Weight (approximate)	2083-2474 lbs (945-1122 kg)	

Benefits and Features

Electronic Control System

The electronic control system provides industry-leading torque and throttle response at low speeds, while maintaining fuel efficiency at high speeds

Common Rail Fuel System

Common rail fuel system enables optimum combustion and low emissions

RH and LH Locations

RH and LH locations for fuel and oil filters and dipstick improves serviceability

Compatibility

Compatible with Cat® displays

Remote Control

Available remote-mounted display panel with start, stop, and engine diagnostics

Electrical Advantages

12V or 24V electrical system

Certificates

Marine classification society certificates: ABS, BV, CCS, CRS, DNV, GL, IRS, KR, LR, NK, PRS, RINA, RS

Standard Equipment

AIR INLET SYSTEM

- Separate circuit after-cooled (SCAC)
- Open Crankcase Ventilation (OCV) system
- Turbocharger, jacket water cooled
- Turbocharger inlet, 152 mm (6 in) OD straight connection

CONTROL SYSTEM

- Programmable low idle
- Electronic diagnostics and fault logging
- Electronic fuel/air ratio control
- Engine Protection Mode for extended ambient conditions - EPA Tier 3 Ratings Only
- 70-pin customer connector
- Three types of throttle inputs (primary/ secondary PWM, 0-5V, 4-20mA)

COOLING SYSTEM

- Separate Circuit After-Cooling (SCAC) for both HEX and Keel cooled engines
- Engine JW and SCAC Shell & Tube Heat Exchangers for HEX cooled engines
- SCAC pump, gear driven, for HEX cooled engines only
- Jacket water pump, gear driven
- Auxiliary water pump, gear driven
- Sea water pump, bronze impeller, gear driven
- SCAC and JW shunt tanks for maintaining proper pump inlet pressures

EXHAUST SYSTEM

- 152 mm (6 in) round flanged outlet
- Water-cooled exhaust manifold & turbocharger

FLYWHEELS & FLYWHEEL HOUSINGS

- Flywheel Housing, SAE No. 0
- Flywheel, 18 inch, 136 teeth
- SAE standard rotation

FUEL SYSTEM

- Front service simplex fuel system

- Fuel transfer pump, gear driven
- Manual fuel priming pump
- Hybrid fuel line design

LUBE SYSTEM

- Front service simplex oil system
- Center sump oil pan:
- Front and top service oil filler locations
- Front service dipstick
- Oil pump, gear driven

MOUNTING SYSTEM

- Front support - adjustable

POWER TAKE-OFFS

- Hydraulic Pump Drive
- Crankshaft Pulleys
- Front Stub Shaft
- Front Enclosed Clutch

GENERAL

- Front damper guard
- Front service engine
- Common electrical bonding point
- Engine does not ship with zinc components
- NOTE: These engines are for constant speed generator set applications only, and NOT to be used for variable speed applications

Optional Equipment

EXHAUST SYSTEM

- Dry Elbows
- Water-Cooled Elbows
- Flexible Fitting
- Flange
- Muffler
- Muffler Spark Arresting

AIR INLET SYSTEM

- Air Inlet Adapter

CHARGING SYSTEM

- Battery Chargers
- Charging Alternators
- Alternator Mounting Group

- Ammeter

CONTROL SYSTEM

- MECP I - Marine Engine Control Panel
- Caterpillar Alarm and Protection
- Load Sharing Attachment

COOLING SYSTEM

- Aux Expansion Flange Kit

FUEL SYSTEM

- Duplex Fuel Filters
- Fuel Cooler
- Primary Fuel Filters
- Flexible Fuel Lines

INSTRUMENTATION

- Instrument Panels
- OEM Wiring Harness
- Gauges
- Oil Level Sensor

LUBE SYSTEM

- Duplex Oil Filters
- Sump Pump

POWER TAKE-OFFS

- Crankshaft Pulleys
- Front Stub Shaft
- Hydraulic Pump Drive Adapter
- Front Enclosed Clutch

PROTECTION SYSTEM

- Marine Classification Society and SOLAS

STARTING SYSTEM

- Electric Starting Motors - Single 24 Volt
- Air Starting Motor
- Air Start Accessories
- Starting Aids - JW Heaters
- Battery Sets - 24 Volt - Dry

MOUNTING SYSTEM

- Front Support
- REAR ENGINE SUPPORT

PACKING

- Engine Protective Cover



- Storage Preservation
- Export Packing

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S•O•S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.