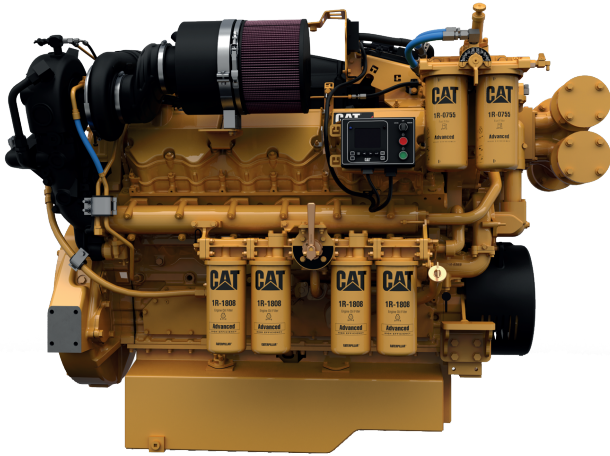


# C32

## MARINE PROPULSION ENGINE (U.S. EPA Tier 3 / IMO II)

559 bkW (750 bhp) @ 1800 rpm

596 bkW (800 bhp) @ 1800 rpm



C32 Marine Propulsion Engine  
U.S. EPA Tier 3 / IMO II

### ENGINE SPECIFICATIONS

#### Configuration

Vee 12, 4-stroke-cycle diesel

#### Emissions

U.S. EPA Tier 3 / IMO II  
emissions certified

#### Rated Engine Speed

1600 - 1800 rpm

#### Bore x Stroke

145 mm x 162 mm  
5.71 in x 6.38 in

#### Displacement

32.1 Liter  
1959 cu in

#### Aspiration

Turbocharged-aftercooled  
aspiration

#### Governor

Electronic (A4 ECM)

#### Refill Capacity

Lube Oil System w/Oil filter change:  
146 L (38.5 gal)

#### Oil Change Interval

1000 hrs

#### Cooling

Heat exchanger or keel cooled

#### Flywheel Housing

SAE No. 0 with SAE No. 18  
flywheel (136 teeth)

#### Rotation

Counterclockwise from flywheel end

### FEATURES AND BENEFITS

- Separate-circuit aftercooling – no sea water in aftercooler
- Reliable electronic controlled unit injector fuel system
- Enhanced control of fuel injection optimized through crank timing and the A4 ECM technology
- Advanced combustion technology to optimize fuel consumption and meet emissions without aftertreatment
- Industry leading power reserve
- Wide range of available Marine Society certifications
- Industry-leading warranty coverage for factory packaged components
- Global dealer network for service in any location

### STANDARD ENGINE EQUIPMENT

- Separate circuit aftercooled (SCAC)
- Heat exchanger or Keel Cooling
- Watercooled exhaust manifold and turbocharger
- Deep or shallow sump oil pan
- Right or left hand service sides
- Oil fill, simplex filter and dipstick
- Duplex fuel filters with hybrid fuel lines
- Hard seawater lines – no flexible hoses
- Fuel transfer and priming pump
- Adjustable front support mounting system
- Customer wiring and service tool connector
- Flanges for cooling connections, ANSI or DIN
- 24V control system

### OPTIONAL ATTACHMENTS

- Starting motors – air, electric or dual
- Charging alternator
- Duplex oil filters
- MECP I control panel
- MECP II or MECP III control panel with Cat® Alarm and Protection System
- Front drives including stub shaft and pump drive
- Rear SAE A or B pump drives
- Closed crankcase fumes disposal
- Primary fuel filter with water separator, fuel cooler

### A RATING (UNRESTRICTED CONTINUOUS) DEFINITION

Typical applications: For vessels operating at rated load and rated speed up to 100% of the time without interruption or cyclical load (80% to 100% load factor). Typical operation ranges from 5000 to 8000 hours per year

**BUILT FOR IT.™**



# TECHNICAL DATA

## C32 Marine Propulsion Engine (U.S. EPA Tier 3 / IMO II)

### PROP DEMAND FUEL CONSUMPTION

Brake Specific Fuel Consumption 559 bkW (750 bhp) @ 1800 rpm				
rpm	bhp	lb/bhp-hr	bkW	g/bkW-hr
1800	750	0.344	559	209.1
1600	526	0.361	393	219.4
1400	353	0.347	263	211.3
1200	222	0.360	166	219.0
1000	129	0.371	96	225.9
800	66	0.397	49	241.7

- ISO 3046/1 fluid consumption tolerance of -0/+5%

Brake Specific Fuel Consumption 596 bkW (800 bhp) @ 1800 rpm				
rpm	bhp	lb/bhp-hr	bkW	g/bkW-hr
1800	800	0.346	596	210.7
1600	562	0.336	419	204.5
1400	376	0.349	281	211.7
1200	237	0.362	177	220.4
1000	137	0.381	102	231.6
800	70	0.411	52	251.3

- ISO 3046/1 fluid consumption tolerance of -0/+5%

Note:

Please reference TMI Web for most current information (Cat dealers only)

Consult your local Cat dealer to create a customized engine TCO (Total Cost of Ownership) analysis specific to your vessel.

### DIMENSIONS & WEIGHT

	Length (1)	Height (2)	Width (3)	Engine dry weight
min.	83.9 in/2130 mm	59.3 in/1507 mm	57.1 in/1451 mm	6950 lb/3152 kg
max.	89.8 in/2280 mm	63.5 in/1613 mm	57.3 in/1455 mm	7160 lb/3248 kg

Note:  
Do not use these dimensions for installation design. See general dimension drawings for detail.

