

# C32B

## HIGH PERFORMANCE

### MARINE DIESEL PROPULSION ENGINE

1491 bkW @ 2300 rpm Diesel Propulsion Rating  
2025 mhp (2000 bhp)

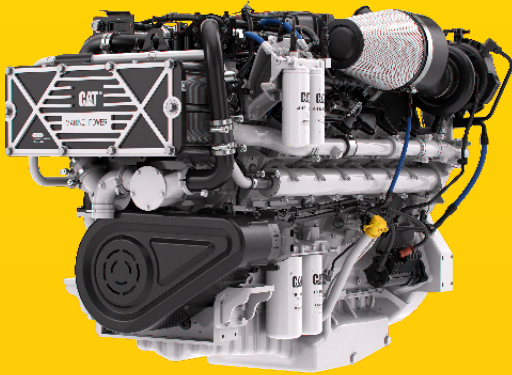


Image shown may not reflect actual engine

## SPECIFICATIONS

### V-12, 4-Stroke-Cycle-Diesel

Total Cylinder Displacement	32.1 L
Rated engine speed	2300 rpm
High idle speed	2415 rpm
Low idle speed	600 rpm
Bore	145 mm
Stroke	162 mm
Aspiration	Turbocharged-Aftercooled
Cooling System	SWAC
Governor	A6 ECM
Fuel system type	MEUI
Rotation (from flywheel end)	Counterclockwise
Flywheel housing/flywheel	SAE No. 0
Flywheel teeth	136

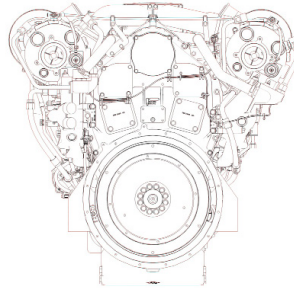
### Emission Compliance

EPA Marine Tier 3 / IMO Tier II

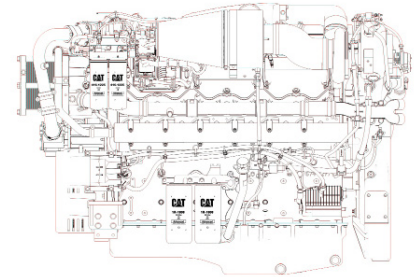


## DIMENSIONS

Rear



Right Side



### ENGINE DIMENSIONS & WEIGHT

(1) Length	2106 mm
(2) Width	1469 mm
(3) Height	1455 mm
Weight, Net Dry (approx)	3145 kg

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

## AIR INTAKE SYSTEM

### Air Inlet System

Intake air flow	7100 kg/hr
Intake air temperature - Max	50°C

### Engine Room Ventilation Air

Heat rejection to atmosphere	45 kW
------------------------------	-------

## EXHAUST SYSTEM

### Exhaust Gas Data

Exhaust gas flow (total)	7450 kg/hr
Engine exhaust connection	4-bolt 130mm dia. Flanged outlet (2x)
Max. customer allowable system backpressure	10 kPa

# C32B HIGH PERFORMANCE MARINE DIESEL PROPULSION ENGINE



## COOLING SYSTEM

### Jacket Water System

Heat rejection . . . . . 1103 kW  
Design Engine Outlet Temp . . . . . 99° C

### Aftercooler Cooling System

Heat rejection. . . . . 325 kW  
Design Engine Outlet Temp. . . . . 32° C

### Sea Water Cooling System

Flow Rate. . . . . 556 lpm  
External Restriction . . . . . 30 kPa  
Max Design Sea Water Inlet Temp. . . . . 32° C

## FUEL SYSTEM

Fuel flow to transfer pump. . . . . 1080 l/hr  
Fuel rate (max) . . . . . 404 l/hr  
Brake Specific Fuel Consumption. . . . . 227 g/bkw-hr  
Connection Size / Type – Supply. . . . . 7/8-14 JIC 37 Deg-10  
– Return. . . . . 7/8-14 JIC 37 Deg-10  
External System Restriction – Supply . . . . . 27 kpa  
– Return . . . . . 30 kpa

## OPERATING FLUIDS

Lubricating Oil . . . . . 15W40 (CJ-4)  
Engine Coolant . . . . . 50% Glycol (up to 25C SW), Treated Water > 25C SW  
Fuel Type / Quality. . . . . Ultra Low Sulfur Diesel Fuel

## C32B 2300 RPM 1491 bkW Marine Prop BSFC

ENGINE SPEED	ENGINE POWER	BRAKE SPEC FUEL CONSUMPTION (BSFC)
RPM	BKW	G/BKW-HR
2,300	1491	227
2,093	1118	222
1,840	746	226
1,449	373	213

ISO 3046/1 fluid consumption tolerance of +5%

### REFERENCE FUEL

Reference fuel is #2 distillate diesel with a 35API gravity; A lower heating value is 42,780 KJ/KG (18,390 BTU/LB) when used at 29 (84.2), where the density is 0.8389 kg/L (7.001 Lbs/Gal).

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

U.S. Sourced  
LEHM0355-01

©2020 Caterpillar  
All rights reserved.  
Materials and specifications are subject to change without notice.  
The International System of Units (SI) is used in this publication.