

# PRODUCT SPECIFICATIONS FOR C32 ACERT TIER 3

<b>Power Range</b>	750-1800 bhp (559-1342 kW)
<b>Speed Range</b>	1600-2300 rpm
<b>Emissions</b>	EPA Tier 3, IMO II, EU IW
<b>Aspiration</b>	TTA
<b>Bore</b>	5.71 in
<b>Stroke</b>	6.38 in
<b>Displacement</b>	1959 in <sup>3</sup>
<b>Rotation from Flywheel End</b>	Counterclockwise
<b>Configuration</b>	Vee 12, 4-Stroke-Cycle Diesel
<b>Maximum Height</b>	62.5 in
<b>Minimum Length</b>	77.8 in
<b>Minimum Height</b>	60.9 in
<b>Maximum Width</b>	60.17 in
<b>Maximum Length</b>	83.5 in
<b>Minimum Dry Weight</b>	6950 lb
<b>Minimum Width</b>	60.17 in

# **C32 ACERT TIER 3 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

## **C32 ACERT TIER 3 OPTIONAL EQUIPMENT**

### **AIR INLET SYSTEMS**

Air Inlet Cleaner

Air Inlet Adapter

### **CHARGING SYSTEMS**

Battery Charger

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

