

# PRODUCT SPECIFICATIONS FOR C8.7

US Metric

**Power Range** 478 bkW

**Speed Range** 2300 rpm

**Stroke** 135 mm

**Aspiration** TSA

**Configuration** In-line 6, 4-Stroke-Cycle Diesel

**Rotation from Flywheel End** Counterclockwise

**Displacement** 8.7 l

**Bore** 117 mm

**Emissions** EPA Tier 3 Recreational & Commercial, IMO II, EU Stage IIIA (EU IW)

**Engine Dry Weight - Approximate** 1041 kg

**Length - Engine** 1218 mm

**Width - Engine** 881 mm

**Height** 984 mm

## **C8.7 STANDARD EQUIPMENT**

### **AIR INLET SYSTEM**

Supercharger, electronically controlled belt driven

Air cleaner/fumes disposal (closed system)

Turbochargers, jacket water cooled

Aftercooler condensate drain

### **CONTROL SYSTEM**

Cold mode start strategy

PWM secondary throttle

Cold mode start strategy

Electronic diagnostics and fault logging

Engine and transmission monitoring (temperature, pressure)

Electronic fuel/air ratio control

Engine Protection Mode for extended ambient conditions

Three types of throttle inputs (CAN, PWM, and 0-5V)

70-pin customer connector

### **COOLING SYSTEM**

Sea water pump, bronze impeller, gear driven, for HEX cooled engines only

Sea water aftercooled

Jacket water pump, belt driven

JW Heat Exchanger - Corrosion resistant shell and tube style

Fuel cooler

Expansion tank

Thermostat housing (fully open temp 95 C)

63mm hose bead raw water inlet

50 mm hose bead raw water outlet

### **EXHAUST SYSTEM**

Water-cooled exhaust manifold & turbocharger

90mm ID round flanged exhaust outlet

### **FLYWHEELS & FLYWHEEL HOUSINGS**

Flywheel Housing, SAE No. 1 - With M10 Threads

Flywheel, SAE 14, 149 teeth - With M12 Threads

SAE standard rotation

### **FUEL SYSTEM**

High Pressure Common Rail fuel system

High pressure fuel system pump with integral low pressure fuel transfer pump

Primary fuel filter, remote mounted with integrated electric priming pump

Primary fuel filter, Remote mounted with integrated electric priming pump

Secondary fuel filter, Rear mounted for LH and RH Service

## **LUBE SYSTEM**

Crankcase breather, closed crankcase ventilation

Oil filter, cartridge style, Rear mounted for LH and RH service

Oil cooler

Oil pan, center sump

Oil pump, gear driven

Dipstick, RH service on Port, LH service on Starboard

## **MOUNTING SYSTEM**

Front and rear support brackets

## **GENERAL**

Front belt and damper guard

Lifting eyes

RH or LH service options

Upper front-facing customer wiring connector and Service Tool connection

## **PROTECTION SYSTEM**

Electronic Engine Monitoring System provides engine de-rate strategies to protect against adverse operating conditions

## **PAINTS**

Engines are painted Matterhorn white with pleasure craft finish includes epoxy primer with polyurethane topcoat. Fuel lines, water lines and clamps and wiring harness will be unpainted. Standard decals and informational films will be installed. Shipped loose parts will be shipped as received from suppliers. Heat sensitive components have a textured black finish.

## **C8.7 OPTIONAL EQUIPMENT**

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## **CONTROL SYSTEM**

Instrument Panels

## **INSTRUMENTATION**

Transmission Sensors

## **MOUNTING SYSTEM**

Vibration isolation mounting