

PRODUCT SPECIFICATIONS FOR C7.1

US Metric

Power Range 298 kW - 373 kW (400 bhp - 500 bhp)

Rotation from Flywheel End Counterclockwise

Speed Range 2900 rpm

Bore 105 mm

Emissions EPA Tier 3 Recreational, IMO II, RCD 2016

Stroke 135 mm

Aspiration Turbocharged, aftercooled

Displacement 7.01 l

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

Width - Engine 798 mm

Height 876 mm

Engine Dry Weight - Approximate 750 kg

Length - Engine 1394 mm

C7.1 STANDARD EQUIPMENT

AIR INLET SYSTEM

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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, gear driven, for HEX cooled engines only

Sea water aftercooled

Jacket water pump, gear driven

JW Heat Exchanger - Corrosion resistant shell and tube style

Fuel cooler

Expansion tank

Thermostat housing

63mm hose bead raw water inlet

50 mm hose bead raw water outlet

Integrated gear oil cooler

EXHAUST SYSTEM

Water-cooled exhaust manifold & turbocharger

90mm ID round flanged exhaust outlet

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel Housing, SAE No. 3 - With M10 Threads

Flywheel, SAE 11 1/2, with 3/8 UNF 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

Secondary fuel filter, LH top service location

LUBE SYSTEM

Crankcase breather, closed crankcase ventilation

Oil filter, LH top service location

Oil cooler

Oil pan, center sump

Oil pump, gear driven

Dipstick, RH service on Port, LH service on Starboard

Dipstick, RH SERVICE ON PORT, LH SERVICE ON STARBOARD

MOUNTING SYSTEM

Front and rear support brackets

GENERAL

Front belt and damper guard

Lifting eyes

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.

C7.1 OPTIONAL EQUIPMENT CONTROL SYSTEM

Instrument Panels

INSTRUMENTATION

Transmission Sensors

MOUNTING SYSTEM

Vibration isolation mounting

