

PRODUCT SPECIFICATIONS FOR 3508C

ENGINE SPECIFICATIONS

Minimum Rating	799 kV·A
Maximum Rating	974 kV·A
Emissions	IMO Tier II

3508C STANDARD EQUIPMENT

AIR INLET SYSTEM

Aftercooler core — corrosion resistant coating

Air cleaners — dual element, installed

Air inlet shutoff

CONTROL SYSTEM

Caterpillar A-III electronic engine control

Rigid wiring harness (MCS)

COOLING SYSTEM

Outlet controlled thermostat and housing

Jacket water pump — gear-driven, flanged single outlet

Aftercooler fresh water cooling pump — gear-driven centrifugal

SCAC pump circuit with thermostat

Single water outlet connection

EXHAUST SYSTEM

Dry gas-tight exhaust manifolds with heat shields, dual turbochargers with water-cooled bearings and heat shields

Flexible exhaust fitting/weldable exhaust flange

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel, SAE No. 00

183 teeth

Flywheel housing, SAE No. 00

MCS approved coupling and generator hub

FUEL SYSTEM

Fuel filter — LH

Fuel transfer and priming pumps

Electronically Controlled Unit Injectors

Flexible fuel lines

Hard fuel return line for MCS requirements

INSTRUMENTATION

Graphic unit (Marine Power Display), LH for analog or digital display of: engine oil and fuel pressure, engine water temperature, system DC voltage, air inlet restriction, RH & LH exhaust temperature, oil and fuel filter differential, service meter, engine speed, instantaneous fuel consumption, total fuel consumed

Operator programmable display, monitoring, alarms and shutdowns

LUBE SYSTEM

Crankcase breather — top mounted

Deep sump oil pan — 1000 hour

Lube oil

Oil drain and valve

Oil filler and dipstick

Oil filter — cartridge-type, LH

Oil pump — gear-type

MOUNTING SYSTEM

Engine and generator three-point mounted into outer base

Oil drain extension

Oil drip pan

PROTECTION SYSTEM

A-III Electronic Monitoring System provides customer programmable engine de-rating strategies to protect against adverse operating conditions

Emergency stop push button (located in Electronic Instrument Panel) Safety shutoff protection for oil pressure and water temperature, overspeed protection

STARTING SYSTEM

STARTING SYSTEM

Air starting motor — RH

Electric start control

Air silencer

GENERAL

Vibration damper and guard

Lifting eyes

Paint, Cat yellow

3508C OPTIONAL EQUIPMENT

EXHAUST SYSTEM

Mufflers — spark arresting

CONTROL SYSTEM

Direct rack control interface

COOLING SYSTEM

Heat exchanger cooling (front engine-mounted including expansion tank)

FUEL SYSTEM

Duplex fuel filters

Primary fuel filter

Fuel cooler — titanium plate type

Fuel/water separator

LUBE SYSTEM

Duplex oil filters

Bypass centrifugal oil filters

15° and 25° tilt capability

Air prelube

PROTECTION SYSTEM

Crankcase explosion relief valves

Metal particle detector

INSTRUMENTATION

Pyrometer and cylinder thermocouples

Air cleaner restriction sensors(2),

Intake manifold temperature sensor

Lubricating oil temperature sensor

Fuel filter differential pressure sensors

PL1000

STARTING SYSTEM

Redundant start with selector switch (air-electric, air-air,air-hydraulic, or electric-hydraulic)

GENERAL

Marine Society and IMO certificates

Jacket water heaters