

Product Specifications For 3508B



Engine Specifications

Minimum Rating	738 kW·A
Maximum Rating	1138 kW·A
Emissions	IMO Tier I
Bore	6.7 in
Displacement	2116 in ³
Stroke	7.5 in
Fuel System	EUI
Engine Control	ADEM A3
Oil Change Interval	1000 h
Weight	27503 lb
Aspiration	Turbocharged-Aftercooled

Dimensions

Height	80.6 in
Width	70.2 in
Length	158.7 in

Capacity For Liquids

Cooling System - Engine	81.6 gal (US)
Lube Oil System - Refill	60 gal (US)

3508B Standard Equipment

AIR INLET SYSTEM

Separate Circuit aftercooler core, corrosion resistant coated (air side) Air cleaner, regular duty Dual Turbochargers, 152 mm (6 in) OD straight connection

CONTROL SYSTEM

Caterpillar A-III Electronic Engine Control, LH with Electronic Unit Injector Fuel System Rigid Wiring Harness (10 amp DC power required to drive Electronic Engine Control Module)

COOLING SYSTEM

Outlet controlled thermostat and housing, full open temperature 92°C (198°F)
Jacket water pump, gear driven
Single water outlet connection, includes flange: 143 mm (5.6")
Aftercooler fresh water cooling pump (SCAC), gear driven centrifugal
SCAC pump circuit contains a thermostat to keep the aftercooler coolant from falling below 30°C (85°F)

EXHAUST SYSTEM

Dry gas tight exhaust manifolds with heat shields Dual Turbochargers with watercooled bearings and heat shields Exhaust outlet, vertical, 203 mm (8 in) round flanged outlet

FLYWHEELS & FLYWHEEL HOUSINGS

Flywheel, SAE No. 00, 183 teeth Flywheel housing, SAE No. 00

FUEL SYSTEM

Fuel filter
Fuel transfer pump
Electronically Controlled Unit Injectors
Fuel priming pump, LH
Rigid fuel return line with customer connection point as base of engine

INSTRUMENTATION

Overspeed shutdown notification light, Emergency stop notification light
Graphical Unit (Marine Power Display) for analog or digital display of:

LUBE SYSTEM

Crankcase breather, top mounted
Oil cooler
Oil filter and dipstick, LH
Oil pump, gear-type
Oil pan drain valve, 2" NPT female connection

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:

STARTING SYSTEM

Air starting motor, RH, 620 to 1034 kPa (90 to 150 psi), LH control

Air silencer

GENERAL

Paint, Caterpillar yellow, with black rails

Vibration damper and guard

Lifting eyes

Engine and generator, three-point mounted to sub-base

Lift provisions on base

Oil drain extension

Engine length drip pan

3508B Optional Equipment

AIR INLET SYSTEM

Remote Air Inlet Adapters

CHARGING SYSTEM

Battery Chargers

Charging Alternators

CONTROL SYSTEM

Load Sharing module

Local speed throttle control

Direct rack control interface, 0-200 mA DC control

COOLING SYSTEM

Coolant level sensors

Connections

Air separator

EXHAUST SYSTEM

Flexible fittings

Elbows

Flanges

Flange and exhaust expanders

Mufflers

FUEL SYSTEM

Fuel Cooler
Primary fuel filter
Fuel filters
Duplex fuel filters
Fuel level switch

GENERATOR ATTACHMENTS

Air filter — generator
Bearing temperature detectors
Cable access box
Manual voltage control

INSTRUMENTATION

PL1000T Communication Module
PL1000E Communication Module
Customer Interface Box
Remote panel display
Remote cylinder temperature display
Exhaust temperature thermocouples
Discrete I/O module
Intake manifold temperature sensors
Oil temperature sensor

LUBE SYSTEM

Duplex oil filter
Bypass centrifugal oil filter
500-hour oil pan
Emergency lube oil connections
Oil level regulator
Prelube
Sump pump

MOUNTING SYSTEM

Vibration isolators

POWER TAKE-OFFS

Auxiliary drive shafts and pulleys

STARTING SYSTEM

Air or electric starting motor
Redundant start with select switch

PROTECTION SYSTEM

Spray shielding
Crankcase explosion relief valve

Metal particle detector

GENERAL

Jacket water heater