PRODUCT SPECIFICATIONS FOR 3516B

ENGINE SPECIFICATIONS

Minimum Rating	1475 kV·A
Maximum Rating	2281 kV·A
Emissions	IMO Tier I
Bore	6.7 in
Weight	41400 lb
Aspiration	TUrbocharged-Aftercooled
Displacement	4233 in³
Stroke	7.5 in
Oil Change Interval	1000 h
Fuel System	EUI
Engine Control	ADEM A3

DIMENSIONS

Height	87.2 in
Length	240 in
Width	84.5 in

CAPACITY FOR LIQUIDS

Cooling System - Engine	126.8 gal (US)
Lube Oil System - Refill	107 gal (US)

3516B 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 pump, gear type

Oil pan drain valve, 2" NPT female connection

PROTECTION SYSTEM

A-III Electronic Monitoring System provides customer programmable engine de-ration 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

3516B 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

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