

PRODUCT SPECIFICATIONS FOR 3516C IMO II



Power Range	1650-3386 bhp (1230-2525 bkW)
Speed Range	1200-1800 rpm
Emissions	IMO II
Aspiration	TTA
Bore	215 mm
Stroke	170 mm
Displacement	78 l
Rotation from Flywheel End	Counterclockwise or clockwise
Configuration	Vee 16, 4-Stroke-Cycle Diesel
Minimum Dry Weight	7961 kg
Minimum Length	3637 mm
Maximum Length	3761 mm
Minimum Height	1967 mm
Maximum Height	2150 mm
Minimum Width	2037 mm
Maximum Width	2142 mm

3516C IMO II STANDARD EQUIPMENT

AIR INLET SYSTEM

Corrosion resistant separate circuit freshwater aftercooled, powercore air cleaner

CONTROL SYSTEM

Dual Caterpillar® A3 Electronic Control Unit (ECU) LH with electronic unit injector fuel system rigid wiring harness (10 amp DC power required to drive ECU)

COOLING SYSTEM

Gear-driven centrifugal auxiliary sea water pump, geardriven centrifugal jacket water pump, expansion tank for commercial engines, coolant shunt tank on lightweight engines, engine oil cooler, thermostats and housing.

ECU FUNCTIONS

Programmable low idle, SAEJ1939 data link, Cat® data link, engine diagnostics, general alarm relay, programmable parameters (system application and tattletales), Caterpillar ET service tool interface, remote shutdown, shutdown notify, load feedback, overspeed shutdown, overspeed verify

EXHAUST SYSTEM

Dry gas-tight exhaust manifolds with heat shields, dual turbochargers with watercooled bearings and heat shield. Wastegate on select ratings

FUEL SYSTEM

Electronically controlled unit injectors, simplex fuel filter (RH) with service indicators, fuel transfer pump

INSTRUMENTATION

Marine Power Display of: Engine oil pressure, engine water temperature, fuel pressure, engine speed, fuel consumption, overspeed shutdown notification light, prelube and shutdown override

LUBE SYSTEM

Gear-driven pump, top-mounted dual crankcase breather groups, simplex oil filter, oil filler and dipstick

POWER TAKE-OFFS

Accessory drive, two-sided front housing

PROTECTION SYSTEM

Emergency stop pushbutton, safety shutoff, oil pressure, and water temperature

GENERAL

Two lifting eyes mounted to cylinder heads, Caterpillar yellow paint, parts books and maintenance manuals, shrink-wrap.

ISO CERTIFICATION

Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

3516C IMO II OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air Cleaner Removal

Remote Air Inlet Adapters

CHARGING SYSTEM

Battery Chargers

Charging Alternators

CONTROL SYSTEM

Throttle Position Sensor

Throttle Synchronization

COOLING SYSTEM

Water Level Switch Gauge

Coolant Level Sensors

Connections

Keel Cooling Conversions

Heat Exchangers

Auxiliary Water Pumps

Sea Water Pump Removal

Coolant Shunt Tanks

Air Separator

Marine Gear Cooling

EXHAUST SYSTEM

Exhaust Outlet

Flexible Fittings

Elbows

Flanges

Flange and Exhaust Expanders

Mufflers

FUEL SYSTEM

Fuel Cooler

Fuel Priming Pumps

Flexible Fuel Lines

Rigid Fuel Lines

Primary Fuel Filter

Fuel level switch

INSTRUMENTATION

PL1000T Communication Module

PL1000E Communication Module

Customer Interface

Thermocouples

Remote Panel Display

Remote Cylinder Temperature Display

PL1000E Instrument Panel

Pilot House Instrument Panels

Marine Gear Sensors

Engine Vision Display System

LUBE SYSTEM

Oil Pan

Oil Pan Accessories

Sump Pumps

Prelubrication Options

Lubricating Oil

CENTRIFUGAL OIL FILTER

MOUNTING SYSTEM

Engine Supports

Vibration Isolation Mountings

POWER TAKE-OFFS

Flexible Coupling and Guards

Front Housing Accessories

Upper Left Hand Front Location:

Upper Right Hand Front Location:

Upper Right Hand Rear Location:

Lower Left Hand Front Location:

Lower Left Hand Rear Location:

Front Housing Accessory Drives

Upper LH Accessory Drive

Upper RH Accessory Drive

Front Power Take Offs

Crankshaft Pulleys

Damper Guard Removals

PROTECTION SYSTEM

Air Inlet Shutoffs

Switches and Contactors

Explosion Relief Valve

Sensors

SPARE PARTS KITS

Parts Kits

Pump Kits

Fuel Transfer

Lube Oil

SPECIAL APPEARANCE

Chrome Plated Relief Valves

Black Air Cleaners

STARTING SYSTEM

Starting Motors or Barring Device

Air Starting Motors Options

Starting Aids

Battery Sets - 24 Volt - Dry

Battery Rack

GENERAL

Tool Set

Caterpillar Datalink Wire

