# Product Specifications For 3516C

## Power Rating

| | |
|---|---|
| **Power Range** | 2000-3385 bhp (1492-2525 bkW) |

## Engine Specifications

| | |
|---|---|
| **Speed Range** | 1200-1800 rpm |
| **Emissions** | IMO II |
| **Aspiration** | TTA |
| **Bore** | 8.46 in |
| **Stroke** | 7.48 in |
| **Displacement** | 4765 in³ |
| **Rotation from Flywheel End** | Counterclockwise or Clockwise |
| **Configuration** | V 16, 4-Stroke-Cycle Diesel |

## Dimensions & Weights

| | |
|---|---|
| **Minimum Height** | 77.4 in |
| **Maximum Length** | 148 in |
| **Maximum Width** | 84.3 in |
| **Minimum Length** | 143.1 in |
| **Maximum Height** | 84.6 in |

## 3516C 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, fue 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 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
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