Product Specifications For 3512C

Engine Specifications

Application	Workboat
Speed Range	1200 - 1800 rpm
Emissions	IMO II, China II
Aspiration	Twin Turbocharged
Bore	6.69 in
Stroke	7.48 in
Stroke - HD	8.46 in
Displacement	3161 in³
Displacement - HD	3574 in³
Rotation from Flywheel End	Counterclockwise or Clockwise
Configuration	V 12, 4-Stroke-Cycle Diesel

Dimensions & Weights

Maximum Length	102 in
Maximum Width	80.2 in
Minimum Dry Weight	14400 lb
Minimum Width	80.2 in
Minimum Height	75 in
Minimum Length	102 in

Maximum Height	75 in
Maximum Dry Weight	17866 lb
Length - Engine	111.1 in

Power Rating

Power Range	1281 - 2552 bhp

3512C Standard Equipment

Air Inlet System

Separate circuit aftercooler core, corrosion resistant coated (air side)
Powercore air cleaner

Control System

Dual Caterpillar A6 Electronic Engine(The China Stage II engine uses an ADEM 4 control module) Control with Electronic Unit Injector Fuel System
Rigid Wiring Harness (20 amp DC power required to drive Electronic Engine Control Module)

Exhaust System

3500C engines:

Fuel System

Fuel transfer pump
Electronically Controlled Unit Injectors
Duplex Fuel Filters

Instrumentation

Electronic service meter, instrument panel (24V), start/stop switch, emergency stop button, maintenance light, diagnostic light, warning light, maintenance clear switch, start motor magnetic switch, multiple size of breakers
Graphical Unit (Color Marine Power Display) for analog or digital of:

Lube System

Crankcase breather groups, Top mounted
Oil filler and dipstick, LH or RH
Oil pump, gear type
250 / 500 / 1000 hour sump oil pan options

Mounting System

Rails, engine mounting, ledge type, 203 mm x 203 mm (8 in x 8 in) or Front Trunnion

Power Takeoffs

Accessory drives: Lower RH, lower LH
Front housing, two-sided

Protection System

A6 Electronic Monitoring System (China Stage II engine uses ADEM 4) provides customer programmable engine derating strategies to protect against adverse operating conditions
Emergency stop push button (located in Electronic Instrument Panel)
Safety shutoff protection:

General

Vibration damper and guard
Lifting eyes

Flywheel And Flywheel Housing

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

Cooling System

Oil cooler
Thermostats and housing, Full open temperature 92 C (198 F)
Jacket water pump, gear driven, centrifugal
Auxiliary fresh water pump
Aftercooler system: If using glycol, up to maximum 20% glycol concentration is allowed
Keel cooling

3512C Optional Equipment

Air Inlet System

Air Inlet Adapters

Charging System

Battery Chargers
Charging Alternator 24V/60amp

Control System

Throttle Control

Cooling System

Coolant Shunt Tank
Cooling System Options

Engine mounted Plate Type Heat Exchanger

Exhaust System

Flexible Fittings
Elbows, Flexible Fittings, and Flanges for exhaust connections
Flanges
Flange and Exhaust Expanders
Mufflers

Fuel System

Fuel Cooler Heat Exchanger - Sea Water
Primary Fuel Filter
Fuel Level Switch
Rigid Fuel Lines
Flexible Fuel Lines

Instrumentation

Communication Modules
Color Marine Power Display System equipped with access to Marine Digital Services
Marine Gear Sensors

Lube System

Sump Pumps
Lubricating Oil

Power Take-Offs

Stub Shafts
Crankshaft Pulleys
Damper Guard
Flexible Coupling and Guards

Marine Society Requirements

Green Passport Documentation

Protection System

Shutoff and Alarm Contactors

Special Appearance Packages

Special Appearance Packages with Chrome Covers
Yacht Class Finish

Starting System

Electric or Air Starting Motor options
Battery Sets - 24 Volt - Dry

Battery Rack

Mounting System

Engine Supports
Vibration Isolation Mountings

Packing

Shrink Wrap Protection
Storage Preservation with Glycol Solution/Vapor Corrosion Inhibitor
Export Boxing
Export Packaging