

PRODUCT SPECIFICATIONS FOR 3512C IMO II

Power Range	1280-2551 bhp (955-1902 bkW)
Speed Range	1200 rpm, 1600 rpm, 1800 rpm
Emissions	IMO II, EU IW
Aspiration	TTA
Bore	6.69 in
Stroke	7.48 in
Displacement	3161 in ³
Rotation from Flywheel End	Counterclockwise or Clockwise
Configuration	Vee 12, 4-Stroke-Cycle Diesel
Displacement - HD	3574 in ³
Stroke - HD	8.5 in
Maximum Length	105.1 in
Maximum Width	87.9 in
Minimum Dry Weight	14400 lb
Minimum Width	80.2 in
Minimum Height	75 in

Minimum Length	102 in
Maximum Height	88.3 in
Maximum Dry Weight	16340 lb

3512C IMO II STANDARD EQUIPMENT

AIR INLET SYSTEM

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

Powercore air cleaner

CONTROL SYSTEM

Dual Caterpillar A4 Electronic Engine Control with Electronic Unit Injector Fuel System

Rigid Wiring Harness (10 amp DC power required to drive Electronic Engine Control Module)

EXHAUST SYSTEM

3500C engines:

FUEL SYSTEM

Fuel transfer pump

Electronically Controlled Unit Injectors

INSTRUMENTATION

Electronic service meter, instrument panel (24V), start/stop switch, emergency stop button, maintenance due light, diagnostic light, warning light, maintenance clear switch, start motor magnetic switch, 15 and 3A 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 or 1000 hour sump oil pan

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

A4 Electronic Monitoring System 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

NOTE: Engines for heat exchanger cooling do NOT include heat exchange

FLYWHEEL AND FLYWHEEL HOUSING

Flywheel, SAE No. 00, 183 teeth

Flywheel housing, SAE No. 00

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

3512C IMO II OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air Inlet Adapters

CHARGING SYSTEM

Battery Chargers

Charging Alternator

CONTROL SYSTEM

Throttle Control

COOLING SYSTEM

Coolant Shunt Tank

Cooling System Options

EXHAUST SYSTEM

Flexible Fittings

File 3512C

Elbows

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

Pilot House Instrument Panels

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

Spray Shielding

PROTECTION SYSTEM

Shutoff and Alarm Contactors

SPECIAL APPEARANCE PACKAGES

Special Appearance Packages with Chrome Covers

Yacht Class Finish

STARTING SYSTEM

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

