

PRODUCT SPECIFICATIONS FOR 3512C

ENGINE SPECIFICATIONS

Minimum Rating	1470 kV·A
Maximum Rating	1700 kV·A
Emissions	EPA Tier 2, IMO II
Engine Control	ADEM A3
Fuel System	EUI
Aspiration	Turbocharged-Aftercooled
Stroke	7.5 in
Oil Change Interval	500 h
Displacement	3161 in³
Bore	6.7 in
Weight	33300 lb

DIMENSIONS

Length	214.5 in
Width	71.9 in
Height	91 in

CAPACITY FOR LIQUIDS

Lube Oil System - Refill	84 gal (US)
Cooling System - Engine	41.5 gal (US)

3512C STANDARD EQUIPMENT

AIR INLET SYSTEM

Corrosion resistant separate circuit aftercooler core, regular duty air cleaners, dual turbochargers

CONTROL SYSTEM

Caterpillar A-III electronic engine control, Electronic Unit Injection fuel system, rigid wiring harness

COOLING SYSTEM

Auxiliary fresh water pump, centrifugal non-self-priming auxiliary sea water pump, gear driven centrifugal jacket water pump, expansion tank, engine oil cooler, thermostats and housing

EXHAUST SYSTEM

Dry gas-tight exhaust manifolds with heat shields, dual turbochargers with water-cooled bearings and heat shields, vertical exhaust outlet

FLYWHEELS & FLYWHEEL HOUSINGS

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

FUEL SYSTEM

Fuel filter, RH, with service indicators

Fuel transfer pump

Electronically Controlled Unit Injectors

INSTRUMENTATION

Engine mounted instrument panel with four position switch, overspeed shutdown notification light, emergency stop notification light, graphical display unit for analog or digital display of: oil and fuel pressure, oil and fuel filter differential, system DC voltage, exhaust and water temperature, air inlet restriction, service meter, engine speed, fuel consumption (total and instantaneous)

LUBE SYSTEM

Top mounted crankcase breather, RH oil filter, RH oil filler, gear type oil pump, deep sump oil pan, recommended use of Caterpillar Diesel Engine Oil 10W30 or 15W40

MOUNTING SYSTEM

Industrial type engine mounting rails)

POWER TAKE-OFFS

Accessory drive Lower RH, Lower LH Front housing, Two-sided

PROTECTION SYSTEM

A-III Electronic Monitoring System provides customer programmable engine de-rating strategies to protect against adverse operating conditions

Emergency stop push button (located in Electronic Instrument Panel) Safety shutoff protection for oil pressure and water temperature, overspeed protection

GENERAL

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Vibration damper and guardPaint, Caterpillar Yellow engine with black rails.Lifting eyes

3512C OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air Cleaner Removal

Remote Air Inlet Adapters

CHARGING SYSTEM

Battery Chargers

Charging Alternators

CONTROL SYSTEM

Load Sharing module

Local speed throttle control

COOLING SYSTEM

Water level switch gauge

Coolant level sensors

Connections

Keel Cooling Conversions

Radiator cooling conversion

Heat exchangers

Auxiliary water pumps

Sea water pump removal

Air separator

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

GENERATORS AND GENERATOR ATTACHMENTS

INSTALLED GENERATOR ARRANGEMENTS F/MAR AUX ENGINES

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INSTRUMENTATION

PL1000T Communication Module

PL1000E Communication Module

Customer Interface Box

Thermocouples

Remote panel display

Remote cylinder temperature display

LUBE SYSTEM

Oil Pan

Oil pan accessories

Sump pumps

Prelubrication Options

Lubricating oil

Centrifugal Oil Filter

MOUNTING SYSTEM

Vibration isolators

Rails

POWER TAKE-OFFS

Flywheel guard

Flexible coupling

Coupling hub

Front housing accessories

Upper left hand front location

Upper left hand rear location

Upper right hand front location:

Upper right hand rear location

Lower left hand front location

Front housing accessory drives

Front power take-offs

Crankshaft pulleys

Damper guard removals

PROTECTION SYSTEM

Air inlet shutoffs

Switches and contactors

Explosion relief valve

Sensors

SPARE PART KITS

Engine Parts Kits

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

SVCE TOOLS/SHIP PROT/FACTORY SUPPORT

Commissioning