

CATERPILLAR®

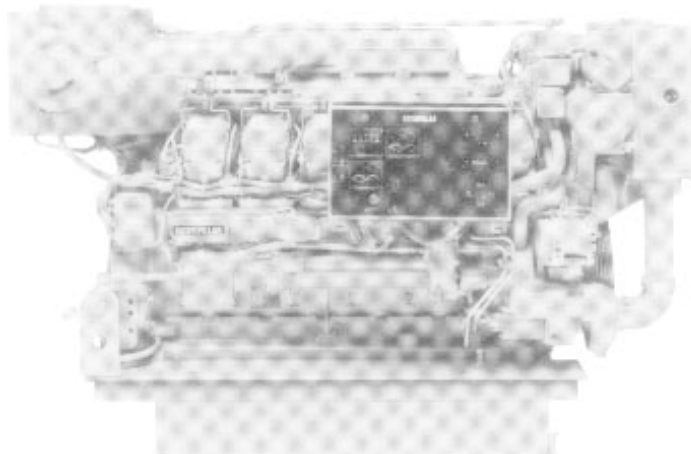
Marine Engine

3512

955-1305 kW/1280-1750 bhp

with EU1 option

1600-1800 rpm



CATERPILLAR® ENGINE SPECIFICATIONS

V-12, 4-Stroke-Cycle Diesel

Bore — mm (in) 170 (6.7)

Stroke — mm (in) 190 (7.5)

Displacement — L (cu in) 51.8 (3158)

Rotation (from flywheel end) ccw or cw

Compression Ratio 13.5:1

Capacity for Liquids — L (U.S. gal)

Cooling System 291 (77)

Lube Oil System (refill) 613 (162)

Oil Change Interval — hrs. 1000

Minimum Lube Oil Grade (required) CF-4

Engine Weight, Net Dry

(approx) — kg (lb) 6667 (14 698)

STANDARD EQUIPMENT

Air Inlet System

Aftercooler core, corrosion resistant coating

Air cleaners, regular duty, installed

Dual turbochargers, water-cooled bearing housings, 152 mm (6 in) OD straight connection

Control System

Dual Advanced Diesel Engine

Management II modules with electronically controlled unit injectors

Cooling System

Auxiliary fresh water pump

Auxiliary sea water pump, non-self-priming (heat exchanger engines only)

Expansion tank, installed

Jacket water pump, gear driven, centrifugal

Oil cooler

Thermostats and housing, full open temperature 92° C (198° F), LH outlet

Exhaust System

Dry gas-tight manifolds with thermo-laminated heat shields

Dual turbochargers with thermo-laminated heat shields

Exhaust outlet, vertical, 203 mm (8 in) ID round flanged outlet

Flywheels and Flywheel Housings

Flywheel, SAE No. 00, 183 teeth

Flywheel housing, SAE No. 00

Fuel System

Electronically controlled unit injectors

Instrumentation

Electronic instrument panel, RH with analog gauges for: oil and fuel pressure, oil and fuel filter differential, system DC voltage, exhaust and water temperature, fuel pressure, air inlet restriction

digital display for: tachometer, hours, fuel consumption—total and instantaneous

Lube System

Crankcase breather, top mounted

Deep sump oil pan

Oil filler and dipstick

Oil filter, cartridge type, RH

Oil pump, gear type

Mounting System

Rails, engine length, ledge type, 203 x 203 mm (8 x 8 in)

Power Take-Offs

Accessory drive, front housing

standard rotation: lower RH, lower LH; opposite rotation: upper and lower RH and upper and lower LH

Front housing, two-sided

Protection System

ADEM II Electronic Monitoring System with customer programmable alarm, shutdown, and deration strategies

Emergency stop pushbutton

General

Lifting eyes, front and rear

Paint, Caterpillar yellow

Vibration damper and guard

ACCESSORY EQUIPMENT

Air compressor

Air inlet adapters

Air inlet shut-offs

Air pressure regulator

Air separator

Air starting motor

Alarm contactors

Auxiliary drive shafts and pulleys

Batteries and battery chargers

Charging alternator, 24 volt 60 amp

Coolant level sensors and gauge

Crankcase explosion relief valves

Customer communication module

Dual 24 volt electric starter motors

Duplex fuel and oil filters

Emergency water and oil connections

Exhaust expander and flange, 203 to 305 mm (12 to 16 in)

Flexible exhaust fitting, 292 mm dia x 305 mm long (11 in dia x 12 in long)

Flexible fuel lines

Front enclosed clutch

Front hydraulic pump mounting

Front stub shaft

Fuel priming pump

Horizontal exhaust outlet

Jacket water heaters

Keel cooling connections

Mufflers

Pilot house instrument panel

Primary fuel filter

Programmable relay control module

Pyrometer and cylinder thermocouples

Shell and tube-type heat exchanger

Fuel filter, RH
Fuel transfer pump

Sump pump
24 volt electric
prelube pump



Power produced at the flywheel will be within standard tolerances up to 50° C (122° F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52° C (125° F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.