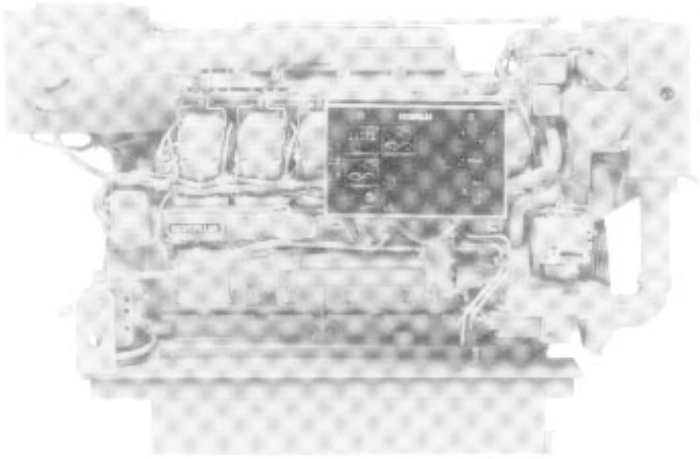
CATERPILLAR®

Marine Engine 3512

955-1305 bkW/1280-1750 bhp
1600-1800 rpm

with EUI option



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.

CATERPILLAR FACILITIES ISO 9001 CERTIFIED