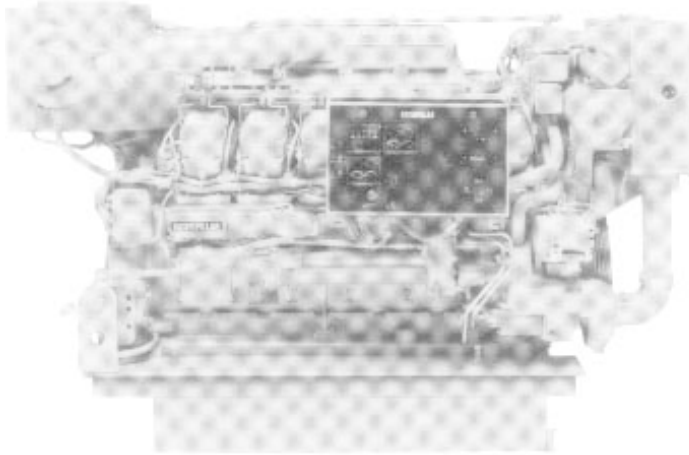


# CATERPILLAR®

## Marine Engine **3512** 955-1305 bkW/1280-1750 bhp with EUi 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.*