Marine Auxiliary Engine

3304B

56 bkW (75 bhp) 100 mph @ 1200 rpm

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions ...................... IMO compliant
Displacement ..................... 7.0 L (425 cu. in.)
Bore ............................. 121 mm (4.75 in.)
Stroke ............................. 152 mm (6.0 in.)
Aspiration ........................ Naturally Aspirated
Governor ........................ Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
  Heat Exchanger Cooled ........... 798 kg (1760 lb)
Cooling System (engine only) .... 13 L (3.5 U.S. gal)
Lube Oil System .............. 22.5 L (5.9 U.S. gal)
Oil Change Interval ............... 250 hr
Rotation (from flywheel end) ...... Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
  Regular duty single-stage air cleaner, rain cap
Charging System
  24V 35 Amp alternator
Cooling System
  Gear driven, self-priming, centrifugal auxiliary water pump with rubber impeller (heat exchanger engines);
gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank;
throttle and housing
Exhaust System
  Watercooled manifold and turbocharger; dry flange, 76 mm (3 in.)
Flywheel and Flywheel Housing
  SAE No. 1 (156 teeth)
Fuel System
  Fuel priming pump, fuel transfer pump, fuel filter,
  primary fuel filter, flexible fuel lines
Instruments
  RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter
Lube System
  Top-mounted crankcase breather, oil filter, LH oil level gauge
Mounting System
  Supports
Starting System
  24V Electric starting motor
General
  Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
12V 51 Amp, 24V 35 Amp or 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 22V Electric Gauges – Oil Pressure,
  Water Temperature
Electric Shutoffs — Oil Pressure, Water Temperature,
  Overspeed
12V Electric Starting Motor
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Generator Installation Arrangement
Hydraulic Pump Drive and Adapter
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Tachometer Drive
Mechanical Overspeed Contactor
Paralleling Kit
Rear Enclosed Clutch and Support
RFI Filter
RH Oil Level Gauge
Solenoid Shutoff — 12V or 24V, ETR or ETS
Spare Parts Kit

PERFORMANCE DATA

Naturally Aspirated

<table>
<thead>
<tr>
<th>% load</th>
<th>bkW</th>
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<th>gph</th>
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TM1555-00
3304B MARINE AUXILIARY ENGINE — 56 bkW (75 bhp)

DIMENSIONS*

<table>
<thead>
<tr>
<th>Dimension Description</th>
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<tbody>
<tr>
<td>Overall Length</td>
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<td>Length from front to rear face of block</td>
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<td>Length from rear face of block to end of engine</td>
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<td>1145.2</td>
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<tr>
<td>Height from crankshaft centerline to top of engine</td>
<td>827.7</td>
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<tr>
<td>Height from crankshaft centerline to bottom of oil pan</td>
<td>317.5</td>
<td>12.5</td>
</tr>
<tr>
<td>Overall Width</td>
<td>957.5</td>
<td>37.7</td>
</tr>
<tr>
<td>Width from crankshaft centerline to port side (left side)</td>
<td>434.8</td>
<td>17.1</td>
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<tr>
<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>522.7</td>
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<tr>
<td>Customer mounting hole diameter</td>
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<td>711.4</td>
<td>28.0</td>
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*Illustrations and dimensions from drawing: 118-7825.

RATING CONDITIONS

**Engine Performance Parameters**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Power</td>
<td>±3%</td>
</tr>
<tr>
<td>Specific Fuel Consumption</td>
<td>±3%</td>
</tr>
<tr>
<td>Fuel Rate</td>
<td>±5%</td>
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</tbody>
</table>

**Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

**Fuel rates** are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar’s control.

TMI Reference No.: TM1955-00 (6-15-01)

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Marine Auxiliary Engine

3304B
Radiator Cooled

57 bkW (76 bhp) 77 mhp @ 1500 rpm

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Emissions ...................... IMO compliant
Displacement ..................... 7.0 L (425 cu. in.)
Bore ............................. 121 mm (4.75 in.)
Stroke ............................. 152 mm (6.0 in.)
Aspiration ...................... Naturally Aspirated
Governor ...................... Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)........... 835 kg (1840 lb)
Capacity for Liquids
Cooling System ................. 32 L (8.5 U.S. gal)
Lube Oil System ................. 22 L (5.75 U.S. gal)
Oil Change Interval ............. 500 hr

Caterpillar DEO 10W30 or 15W40

Rotation (from flywheel end)..... Counterclockwise

ACCESSORY EQUIPMENT

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature
12V 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer

Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure, Water Temperature

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
12V Electric Starting Motor
Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings
Generator Installation Arrangement
High Capacity Radiator and Fan Drive
Hydraulic Pump Drive
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Tachometer Drive
Paralleling Kit
Rear Enclosed Clutch and Support
RFI Filter
RH Oil Level Gauge
Solenoid Shutoff — 12V or 24V, ETR or ETS
Spare Parts Kit

PERFORMANCE DATA

Naturally Aspirated

DM4053-00

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<td>23</td>
<td>15</td>
<td>5.8</td>
<td>1.5</td>
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<th>Dimension</th>
<th>mm</th>
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</thead>
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<td>Overall Length</td>
<td>1467.6</td>
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</tr>
<tr>
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<td>803.5</td>
<td>31.6</td>
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<td>317.4</td>
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<td>Overall Width</td>
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<td>Width from crankshaft centerline to port side (left side)</td>
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<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>542.8</td>
<td>21.4</td>
</tr>
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</table>

*Illustrations and dimensions from drawing: 138-9318.

**RATING CONDITIONS**

**Engine Performance Parameters**

- **Power**: ±3%
- **Specific Fuel Consumption**: ±3%
- **Fuel Rate**: ±5%

**Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

**Fuel rates** are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar’s control.

TMI Reference No.: DM4053-00 (6-19-01)
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Marine Auxiliary Engine 3304B

**SPECIFICATIONS**

I-4, 4-Stroke-Cycle-Diesel

- **Emissions**: IMO compliant
- **Displacement**: 7.0 L (425 cu. in.)
- **Bore**: 121 mm (4.75 in.)
- **Stroke**: 152 mm (6.0 in.)
- **Aspiration**: Naturally Aspirated

**Governor**

- Hydra-mechanical or PSG

**Engine Weight, Net Dry (approx)**

- Heat Exchanger Cooled: 798 kg (1760 lb)
- Keel Cooled: 764 kg (1685 lb)

**Capacity for Liquids**

- Cooling System (engine only): 13 L (3.5 U.S. gal)
- Lube Oil System: 22.5 L (5.9 U.S. gal)

**Oil Change Interval**: 250 hr

**Caterpillar DEO 10W30 or 15W40**

**Rotation (from flywheel end)**: Counterclockwise

**PERFORMANCE DATA**

Naturally Aspirated

**TM1975-00**

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<thead>
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</tr>
<tr>
<td>20</td>
<td>12</td>
<td>5.2</td>
<td>1.4</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT**

- **Air Inlet System**
  - Regular duty single-stage air cleaner, rain cap

- **Charging System**
  - 24V 35 Amp alternator

- **Cooling System**
  - Gear driven, self-priming, centrifugal auxiliary water pump with rubber impeller (heat exchanger engines); gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing

- **Exhaust System**
  - Watercooled manifold and turbocharger; dry flange, 76 mm (3 in.)

- **Flywheel and Flywheel Housing**
  - SAE No. 1 (156 teeth)

- **Fuel System**
  - Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

- **Instruments**
  - RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

- **Lube System**
  - Top-mounted crankcase breather, oil filter, LH oil level gauge

- **Mounting System**
  - Supports

- **Starting System**
  - 24V Electric starting motor

- **General**
  - Caterpillar yellow paint, lifting eyes

**ACCESSORY EQUIPMENT**

- **Air Starting Motor**
- **Alarm Contactor — Oil Pressure, Water Temperature**
- **12V 51 Amp, 24V 35 Amp or 60 Amp Alternator**
- **Auxiliary Drive Pulley**
- **Digital Tachometer**
- **Double Wall Fuel Lines and Drain**
- **12V Electric Gauges — Oil Pressure, Water Temperature**
- **24V or 32V Electric Gauges – Oil Pressure, Water Temperature**
- **Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed**
- **12V Electric Starting Motor**
- **Ether Starting Aid**
- **Exhaust Elbow, Pipe, Flexible Fittings**
- **Generator Installation Arrangement**
- **Hydraulic Pump Drive and Adapter**
- **Magnetic Pickup**
- **Manual Shutoff Lever**
- **Manual Voltage Control**
- **Mechanical Tachometer Drive**
- **Mechanical Overspeed Contactor**
- **Paralleling Kit**
- **Rear Enclosed Clutch and Support**
- **RFI Filter**
- **RH Oil Level Gauge**
- **Solenoid Shutoff — 12V or 24V, ETR or ETS**
- **Spare Parts Kit**
DIMENSIONS*

<table>
<thead>
<tr>
<th>Dimension</th>
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<tbody>
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<td>Overall Length</td>
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<td>1145.2</td>
<td>45.1</td>
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<td>Height from crankshaft centerline to top of engine</td>
<td>827.7</td>
<td>32.6</td>
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<tr>
<td>Height from crankshaft centerline to bottom of oil pan</td>
<td>317.5</td>
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<tr>
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<td>434.8</td>
<td>17.1</td>
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<td>Width from crankshaft centerline to starboard side (right side)</td>
<td>522.7</td>
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<tr>
<td>Customer mounting hole diameter</td>
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*Illustrations and dimensions from drawing: 118-7825.

RATING CONDITIONS

**Engine Performance Parameters**
- Power: ±3%
- Specific Fuel Consumption: ±3%
- Fuel Rate: ±5%

**Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

**Fuel rates** are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

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TMI Reference No.: TM1975-00 (6-15-01)
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LEHM1537-00 (6-01)
Printed in U.S.A.
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Marine Auxiliary Engine
3304B
Radiator Cooled
73 bkW (98 bhp) 99 mhp @ 1800 rpm

SPECIFICATIONS
I-4, 4-Stroke-Cycle-Diesel
Emissions ....................... IMO compliant
Displacement ................. 7.0 L (425 cu. in.)
Bore .......................... 121 mm (4.75 in.)
Stroke .......................... 152 mm (6.0 in.)
Aspiration .................. Naturally Aspirated
Governor ................... Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) .... 835 kg (1840 lb)
Capacity for Liquids
 Cooling System
 (engine and radiator) .......... 32 L (8.5 U.S. gal)
 Lube Oil System ............... 22 L (5.75 U.S. gal)
Oil Change Interval ............... 500 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) .... Counterclockwise

ACCESSORY EQUIPMENT
Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
12V 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure, Water Temperature
Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed
12V Electric Starting Motor
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Generator Installation Arrangement
High Capacity Radiator and Fan Drive
Hydraulic Pump Drive
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Tachometer Drive
Paralleling Kit
Rear Enclosed Clutch and Support
RFI Filter
RH Oil Level Gauge
Solenoid Shutoff — 12V or 24V, ETR or ETS
Spare Parts Kit

PERFORMANCE DATA
Naturally Aspirated
DM4054-00

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*Illustrations and dimensions from drawing: 138-9318.

**RATING CONDITIONS**

**Engine Performance Parameters**

| Power                                           | +3%   |
| Specific Fuel Consumption                       | ±3%   |
| Fuel Rate                                       | ±5%   |

**Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in. Hg), 25°C (77°F), and 30% relative humidity. These ratings also apply at ISO3046/1, DIN6271/3, and BS5514 conditions of 100 kPa (29.61 in. Hg), 27°C (81°F), and 60% relative humidity.

**Fuel rates** are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/L (7.001 lb/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions beyond Caterpillar's control.

TMI Reference No.: DM4054-00 (6-18-01)

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**STANDARD EQUIPMENT**

- **Air Inlet System**
  - Regular duty single-stage air cleaner, rain cap

- **Charging System**
  - 24V 35 Amp alternator

- **Cooling System**
  - Gear driven, self-priming, centrifugal auxiliary water pump with rubber impeller (heat exchanger engines);
  - gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted heat exchanger with removable tube bundle and replaceable copper-nickel tubes (heat exchanger engines); expansion tank; thermostat and housing

- **Exhaust System**
  - Watercooled manifold and turbocharger; dry flange, 76 mm (3 in.)

- **Flywheel and Flywheel Housing**
  - SAE No. 1 (156 teeth)

- **Fuel System**
  - Fuel priming pump, fuel transfer pump, fuel filter, primary fuel filter, flexible fuel lines

- **Instruments**
  - RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

- **Lube System**
  - Top-mounted crankcase breather, oil filter, LH oil level gauge

- **Mounting System**
  - Supports

- **Starting System**
  - 24V Electric starting motor

- **General**
  - Caterpillar yellow paint, lifting eyes

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**ACCESSORY EQUIPMENT**

- **Air Starting Motor**
- **Alarm Contactor — Oil Pressure, Water Temperature**
- **12V 51 Amp, 24V 35 Amp or 60 Amp Alternator**
- **Auxiliary Drive Pulley**
- **Digital Tachometer**
- **Double Wall Fuel Lines and Drain**
- **12V Electric Gauges — Oil Pressure, Water Temperature**
- **24V or 32V Electric Gauges – Oil Pressure, Water Temperature**
- **Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed**
- **12V Electric Starting Motor**
- **Ether Starting Aid**
- **Exhaust Elbow, Pipe, Flexible Fittings**
- **Generator Installation Arrangement**
- **Hydraulic Pump Drive and Adapter**
- **Magnetic Pickup**
- **Manual Shutoff Lever**
- **Manual Voltage Control**
- **Mechanical Tachometer Drive**
- **Mechanical Overspeed Contactor**
- **Paralleling Kit**
- **Rear Enclosed Clutch and Support**
- **RFI Filter**
- **RH Oil Level Gauge**
- **Solenoid Shutoff — 12V or 24V, ETR or ETS**
- **Spare Parts Kit**

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**PERFORMANCE DATA**

Naturally Aspirated

- **TM8324-00**

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**TMI Reference No.: TM8324-00 (6-15-01)**

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The International System of Units (SI) is used in this publication.

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