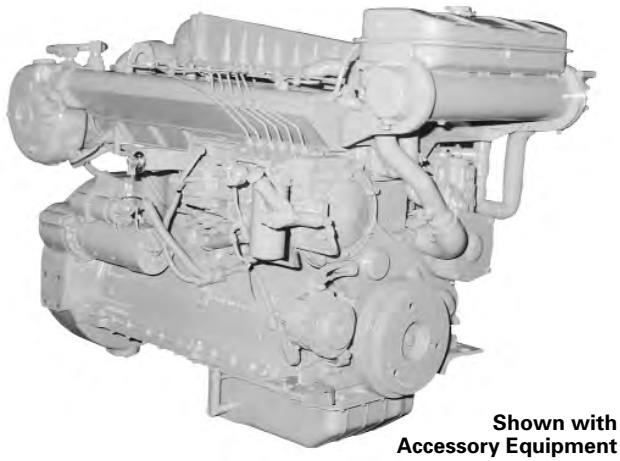
CATERPILLAR®

Marine Auxiliary Engine 3306B

161 bkW (216 bhp) 219 mhp @ 1500 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
  Heat Exchanger Cooled . . . . . 1027 kg (2265 lb)
  Keel Cooled . . . . . 993 kg (2190 lb)
Capacity for Liquids
  Cooling System (engine only) . . 15.9 L (4.2 U.S. gal)
  Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
  Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty 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); thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, LH oil filter and oil level gauge, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 35 Amp, 24V 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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
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

Turbocharged-Aftercooled

DM4998-00

161 bkW (.8 pf) 216 bhp			
% load	**bkW**	**Lph**	**gph**
100	157	40.6	10.7
75	117	30.4	8.0
50	78	20.4	5.4
25	40	11.7	3.1

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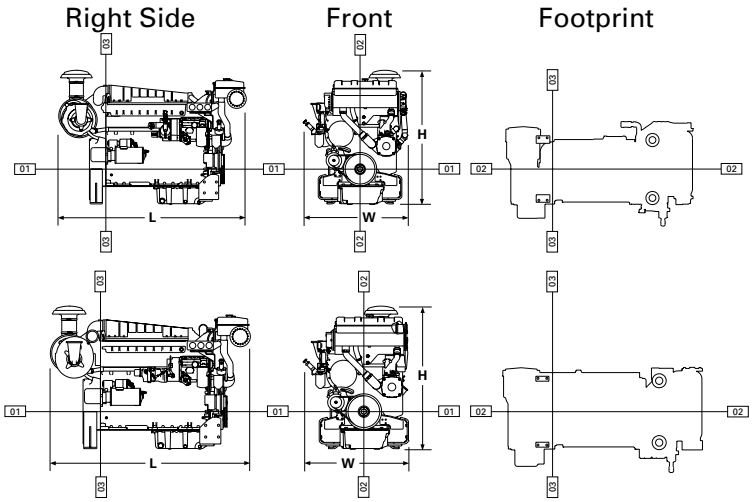
3306B MARINE AUXILIARY ENGINE — 161 bkW (216 bhp)



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled	
	mm	in.	mm	in.
Overall Length	1715.6	67.5	1715.4	67.5
Length from front to rear face of block	1285.0	50.6	1285.0	50.6
Length from rear face of block to back of flywheel housing	149.8	5.9	149.8	5.9
Overall Height	1227.2	48.3	1227.2	48.3
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6
Height from crankshaft centerline to bottom of oil pan	322.8	12.7	322.8	12.7
Overall Width	956.7	37.7	898.6	35.4
Width from crankshaft centerline to port side (left side)	434.8	17.1	376.7	14.8
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	62.0	2.4	17.0	0.7
Width from crankshaft centerline to side	265.1	10.4	285.8	11.3
Length from rear face of block to mounting hole	913.9	36.0	49.5	2.0
			125.7	5.0

*Illustrations and dimensions from drawings: 118-7822 for heat exchanger cooled and 186-6450 for keel cooled.

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.: DM4998-00 (6-18-01)
Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

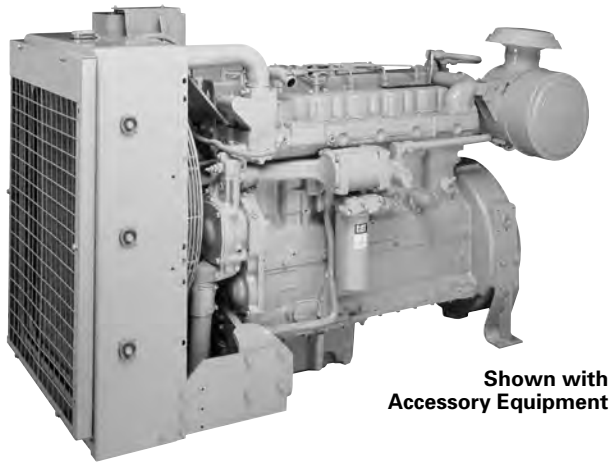
LEHM1556-00 (6-01) Printed in U.S.A.

CATERPILLAR®

Marine Auxiliary Engine 3306B

Radiator Cooled

169 bkW (227 bhp) 230 mhp @ 1500 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) . . . . 1120 kg (2470 lb)
Capacity for Liquids
Cooling System (engine only) . . . 25 L (6.6 U.S. gal)
Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty air cleaner, rain cap

Charging System
24V 35 Amp alternator

Cooling System
Gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted radiator, fan guard, blower fan, fan drive; thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
Generator Installation Arrangement
High Capacity Radiator and Fan Drive
Hydraulic Pump Drive
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Overspeed Contactor
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

Turbocharged-Aftercooled

DM4999-00

169 bkW (.8 pf) 227 bhp			
% load	**bkW**	**Lph**	**gph**
100	171	44.1	11.6
76	128	33.3	8.8
51	86	22.4	5.9
26	45	12.8	3.4

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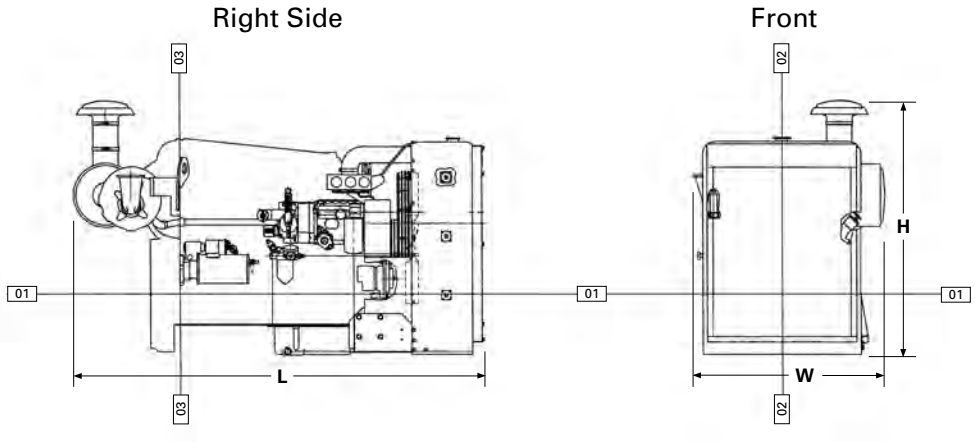
3306B MARINE AUXILIARY ENGINE — 169 bkW (227 bhp)



DIMENSIONS*

	mm	in.
Overall Length	2071.1	81.5
Length from front to rear face of block	1534.8	60.4
Length from rear face of block to back of flywheel housing	143.6	5.7
Overall Height	1290.7	50.8
Height from crankshaft centerline to top of engine	978.9	38.5
Height from crankshaft centerline to bottom of oil pan	311.8	12.3
Overall Width	970.0	38.2
Width from crankshaft centerline to port side (left side)	519.5	20.5
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Rear	
	mm	in.
Customer mounting hole diameter	17.0	0.7
Width from crankshaft centerline to side	285.8	11.3
Length from rear face of block to mounting hole	49.5	2.0
	125.7	5.0

*Illustrations and dimensions from drawing: 187-4367.

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.: DM4999-00 (6-18-01)
Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.
LEHM1565-00 (6-01) Printed in U.S.A.

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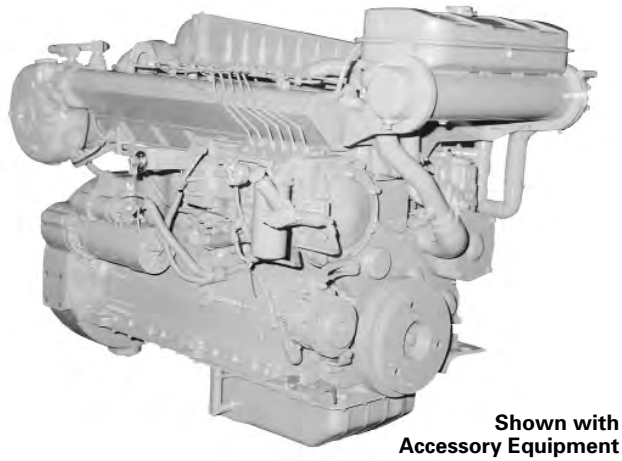
Marine Auxiliary Engine 3306B

174 bkW (233 bhp) 236 mhp @ 1500 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
  Heat Exchanger Cooled . . . . . 1027 kg (2265 lb)
  Keel Cooled . . . . . 993 kg (2190 lb)
Capacity for Liquids
  Cooling System (engine only) . . 15.9 L (4.2 U.S. gal)
  Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
  Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty 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); thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, LH oil filter and oil level gauge, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 35 Amp, 24V 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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
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

Turbocharged-Aftercooled

DM6051-00

174 bkW (.8 pf) 233 bhp			
% load	**bkW**	**Lph**	**gph**
100	174	44.7	11.8
75	130	33.7	8.9
50	86	22.4	5.9
25	44	12.6	3.3

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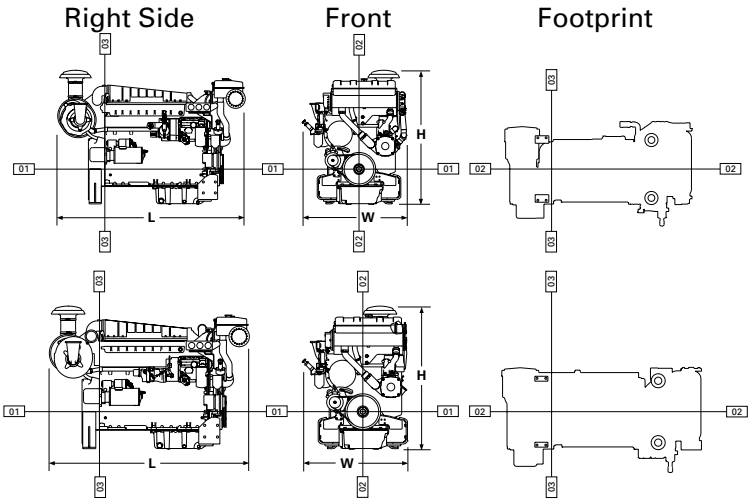
3306B MARINE AUXILIARY ENGINE — 174 bkW (233 bhp)



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled	
	mm	in.	mm	in.
Overall Length	1715.6	67.5	1715.4	67.5
Length from front to rear face of block	1285.0	50.6	1285.0	50.6
Length from rear face of block to back of flywheel housing	149.8	5.9	149.8	5.9
Overall Height	1227.2	48.3	1227.2	48.3
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6
Height from crankshaft centerline to bottom of oil pan	322.8	12.7	322.8	12.7
Overall Width	956.7	37.7	898.6	35.4
Width from crankshaft centerline to port side (left side)	434.8	17.1	376.7	14.8
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	62.0	2.4	17.0	0.7
Width from crankshaft centerline to side	265.1	10.4	285.8	11.3
Length from rear face of block to mounting hole	913.9	36.0	49.5	2.0
			125.7	5.0

*Illustrations and dimensions from drawings: 118-7822 for heat exchanger cooled and 186-6450 for keel cooled.

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.

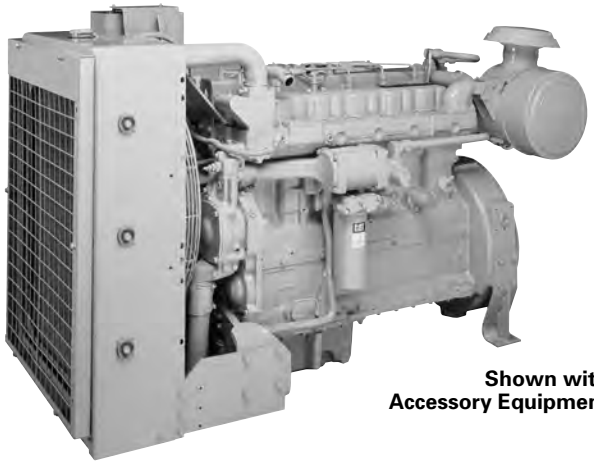
TMI Reference No.: DM6051-00 (6-17-01)
Materials and specifications are subject to change without notice.
The International System of Units (SI) is used in this publication.
LEHM1555-00 (6-01)
Printed in U.S.A.

CATERPILLAR®

Marine Auxiliary Engine 3306B

Radiator Cooled

183 bkW (245 bhp) 248 mhp @ 1800 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) . . . . 1120 kg (2470 lb)
Capacity for Liquids
Cooling System (engine only) . . . 25 L (6.6 U.S. gal)
Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty air cleaner, rain cap

Charging System
24V 35 Amp alternator

Cooling System
Gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted radiator, fan guard, blower fan, fan drive; thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
Generator Installation Arrangement
High Capacity Radiator and Fan Drive
Hydraulic Pump Drive
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Overspeed Contactor
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

Turbocharged-Aftercooled

DM4993-00

183 bkW (.8 pf) 245 bhp			
% load	**bkW**	**Lph**	**gph**
88	166	49.3	11.6
73	137	36.4	9.6
49	92	24.9	6.6
24	47	14.6	3.9

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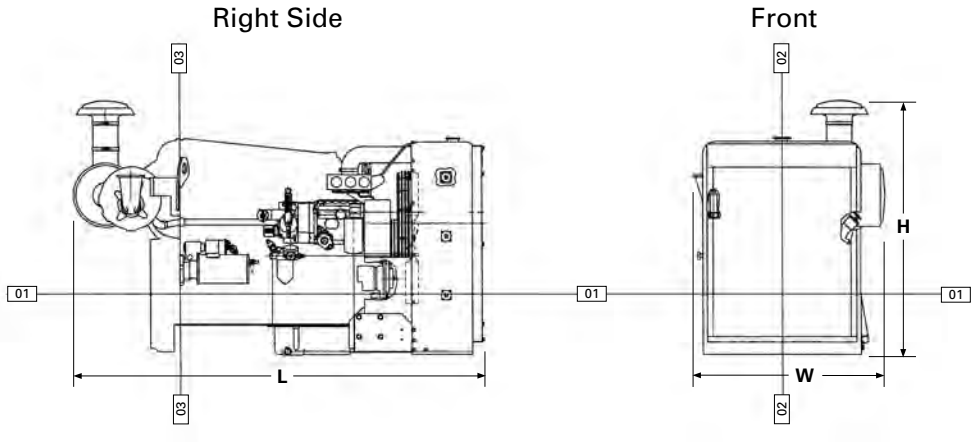
3306B MARINE AUXILIARY ENGINE — 183 bkW (245 bhp)



DIMENSIONS*

	mm	in.
Overall Length	2071.1	81.5
Length from front to rear face of block	1534.8	60.4
Length from rear face of block to back of flywheel housing	143.6	5.7
Overall Height	1290.7	50.8
Height from crankshaft centerline to top of engine	978.9	38.5
Height from crankshaft centerline to bottom of oil pan	311.8	12.3
Overall Width	970.0	38.2
Width from crankshaft centerline to port side (left side)	519.5	20.5
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Rear	
	mm	in.
Customer mounting hole diameter	17.0	0.7
Width from crankshaft centerline to side	285.8	11.3
Length from rear face of block to mounting hole	49.5	2.0
	125.7	5.0

*Illustrations and dimensions from drawing: 187-4367.

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.

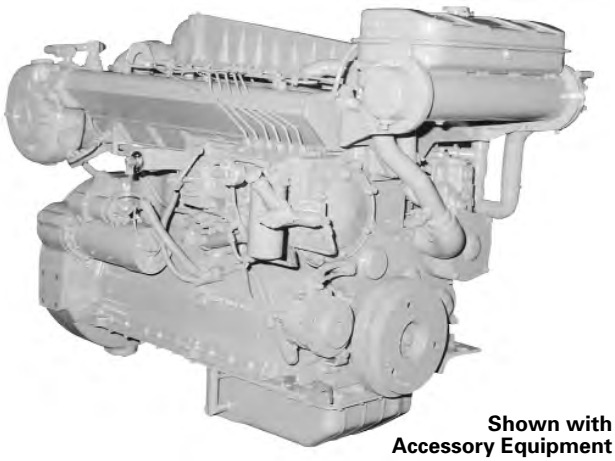
Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions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

TMI Reference No.: DM4993-00 (6-18-01)
Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.
LEHM1564-00 (6-01) Printed in U.S.A.

CATERPILLAR®

Marine Auxiliary Engine 3306B

184 bkW (247 bhp) 251 mhp @ 1800 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
  Heat Exchanger Cooled . . . . . 1120 kg (2470 lb)
  Keel Cooled . . . . . 1086 kg (2395 lb)
Capacity for Liquids
  Cooling System (engine only) . . 15.9 L (4.2 U.S. gal)
  Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
  Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty 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); thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, LH oil filter and oil level gauge, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 35 Amp, 24V 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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
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

Turbocharged-Aftercooled

DM4992-00

184 bkW (.8 pf) 247 bhp			
% load	**bkW**	**Lph**	**gph**
100	184	48.6	12.8
75	137	36.4	9.6
50	92	24.9	6.6
25	47	14.6	3.9

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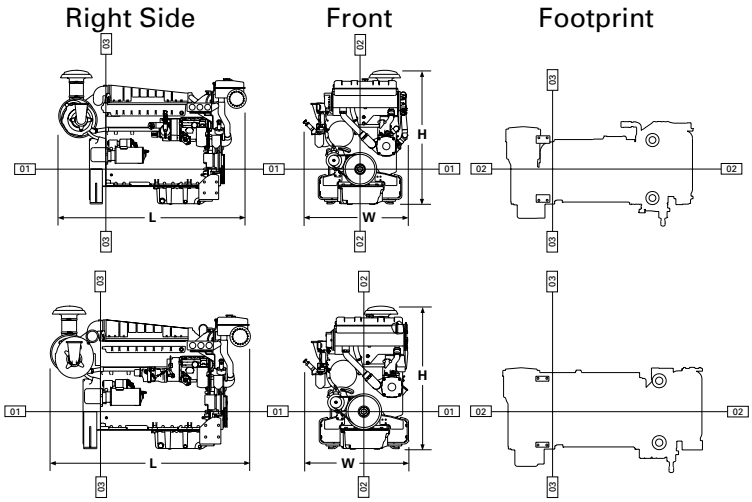
3306B MARINE AUXILIARY ENGINE — 184 bkW (247 bhp)



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled	
	mm	in.	mm	in.
Overall Length	1715.6	67.5	1715.4	67.5
Length from front to rear face of block	1285.0	50.6	1285.0	50.6
Length from rear face of block to back of flywheel housing	149.8	5.9	149.8	5.9
Overall Height	1227.2	48.3	1227.2	48.3
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6
Height from crankshaft centerline to bottom of oil pan	322.8	12.7	322.8	12.7
Overall Width	956.7	37.7	898.6	35.4
Width from crankshaft centerline to port side (left side)	434.8	17.1	376.7	14.8
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	62.0	2.4	17.0	0.7
Width from crankshaft centerline to side	265.1	10.4	285.8	11.3
Length from rear face of block to mounting hole	913.9	36.0	49.5	2.0
			125.7	5.0

*Illustrations and dimensions from drawings: 118-7822 for heat exchanger cooled and 186-6450 for keel cooled.

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.

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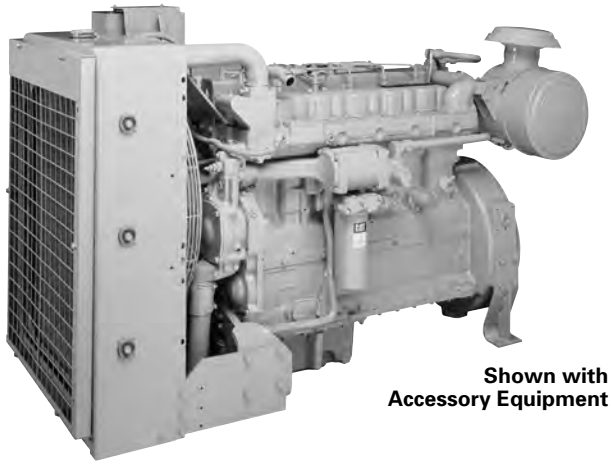
Marine Auxiliary Engine 3306B

Radiator Cooled

205 bkW (275 bhp) 279 mhp @ 1800 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) . . . . 1211 kg (2670 lb)
Capacity for Liquids
Cooling System (engine only) . . . 25 L (6.6 U.S. gal)
Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty air cleaner, rain cap

Charging System
24V 35 Amp alternator

Cooling System
Gear driven, centrifugal, jacket water pump; expansion tank; oil cooler; engine mounted radiator, fan guard, blower fan, fan drive; thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
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
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
Fuel Ratio Control
Generator Installation Arrangement
High Capacity Radiator and Fan Drive
Hydraulic Pump Drive
Magnetic Pickup
Manual Shutoff Lever
Manual Voltage Control
Mechanical Overspeed Contactor
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

Turbocharged-Aftercooled

DM4995-00

205 bkW (.8 pf) 275 bhp			
% load	**bkW**	**Lph**	**gph**
90	188	49.7	13.1
76	158	33.3	11.0
51	107	22.4	7.6
26	57	12.8	4.4

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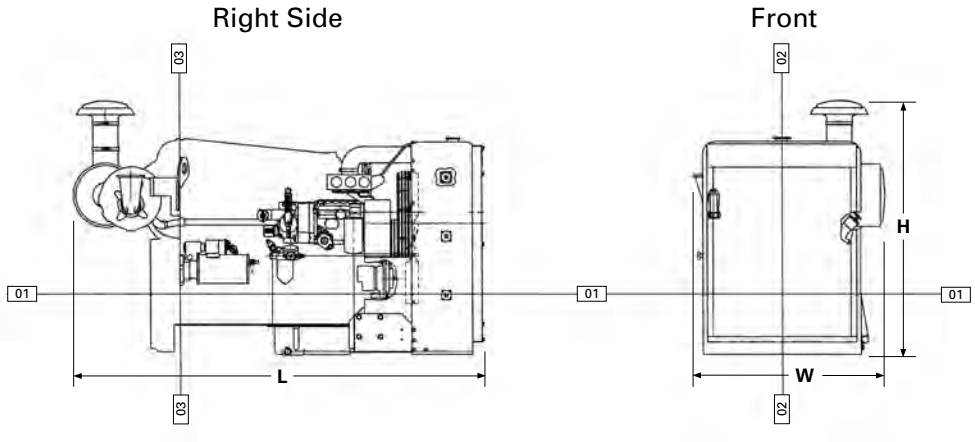
3306B MARINE AUXILIARY ENGINE — 205 bkW (275 bhp)



DIMENSIONS*

	mm	in.
Overall Length	2071.1	81.5
Length from front to rear face of block	1534.8	60.4
Length from rear face of block to back of flywheel housing	143.6	5.7
Overall Height	1290.7	50.8
Height from crankshaft centerline to top of engine	978.9	38.5
Height from crankshaft centerline to bottom of oil pan	311.8	12.3
Overall Width	970.0	38.2
Width from crankshaft centerline to port side (left side)	519.5	20.5
Width from crankshaft centerline to starboard side (right side)	450.5	17.7

	Rear	
	mm	in.
Customer mounting hole diameter	17.0	0.7
Width from crankshaft centerline to side	285.8	11.3
Length from rear face of block to mounting hole	49.5	2.0
	125.7	5.0

*Illustrations and dimensions from drawing: 187-4367.

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.

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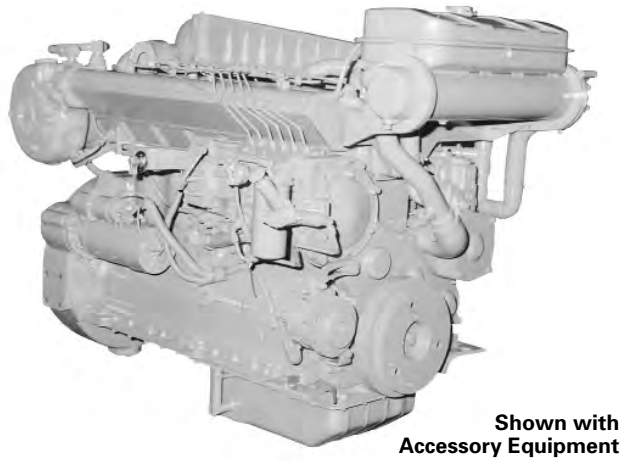
CATERPILLAR®

Marine Auxiliary Engine 3306B

205 bkW (275 bhp) 279 mhp @ 1800 rpm



Shown with Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions . . . . . IMO compliant
Displacement . . . . . 10.5 L (641 cu. in.)
Bore . . . . . 120.7 mm (4.75 in.)
Stroke . . . . . 152.4 mm (6.0 in.)
Aspiration . . . . . Turbocharged-Aftercooled
Governor . . . . . Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
  Heat Exchanger Cooled . . . . . 1120 kg (2470 lb)
  Keel Cooled . . . . . 1086 kg (2395 lb)
Capacity for Liquids
  Cooling System (engine only) . . 15.9 L (4.2 U.S. gal)
  Lube Oil System . . . . . 38.8 L (10.25 U.S. gal)
Oil Change Interval . . . . . 250 hr
  Caterpillar DEO 10W30 or 15W40
Rotation (from flywheel end) . . . . . Counterclockwise

STANDARD EQUIPMENT

Air Inlet System
Regular duty 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); thermostat and housing

Exhaust System
Watercooled manifold and turbocharger; dry elbow and flange, 127 mm (5 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, LH oil filter and oil level gauge, oil pan

Mounting System
Supports

Starting System
24V electric starting motor

General
Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
24V 35 Amp, 24V 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
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Ether Starting Aid
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Fuel Ratio Control
Generator Installation Arrangement
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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

Turbocharged-Aftercooled

DM4994-00

205 bkW (.8 pf) 275 bhp			
% load	**bkW**	**Lph**	**gph**
100	205	54.0	14.3
75	153	40.7	10.8
50	103	27.6	7.3
25	53	15.8	4.2

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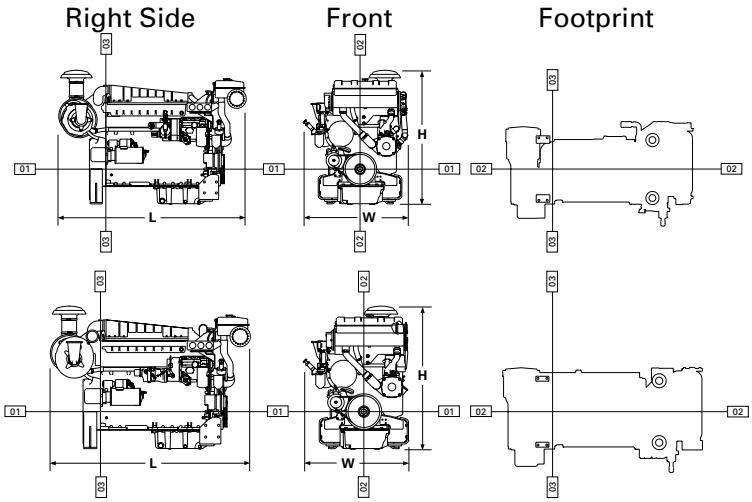
3306B MARINE AUXILIARY ENGINE — 205 bkW (275 bhp)



DIMENSIONS*

	Heat Exchanger Cooled		Keel Cooled	
	mm	in.	mm	in.
Overall Length	1715.6	67.5	1715.4	67.5
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Length from rear face of block to back of flywheel housing	149.8	5.9	149.8	5.9
Overall Height	1227.2	48.3	1227.2	48.3
Height from crankshaft centerline to top of engine	904.4	35.6	904.4	35.6
Height from crankshaft centerline to bottom of oil pan	322.8	12.7	322.8	12.7
Overall Width	956.7	37.7	898.6	35.4
Width from crankshaft centerline to port side (left side)	434.8	17.1	376.7	14.8
Width from crankshaft centerline to starboard side (right side)	521.9	20.6	521.9	20.6

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	62.0	2.4	17.0	0.7
Width from crankshaft centerline to side	265.1	10.4	285.8	11.3
Length from rear face of block to mounting hole	913.9	36.0	49.5	2.0
			125.7	5.0

*Illustrations and dimensions from drawings: 118-7822 for heat exchanger cooled and 186-6450 for keel cooled.

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).

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