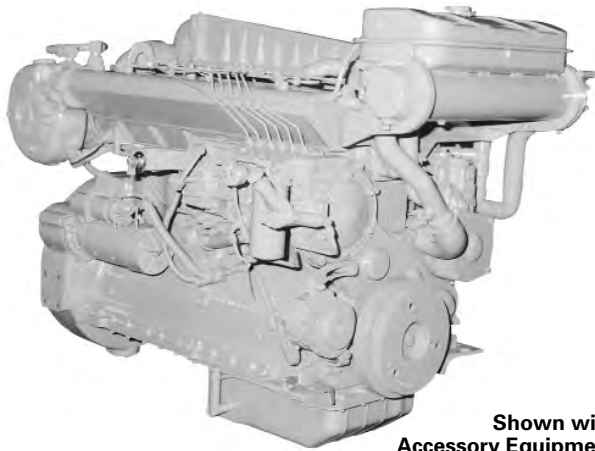




Marine Auxiliary Engine 3306B

161 bkW (216 bhp) 219 mhp @ 1500 rpm



Shown with Accessory Equipment

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

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

ACCESSORY EQUIPMENT

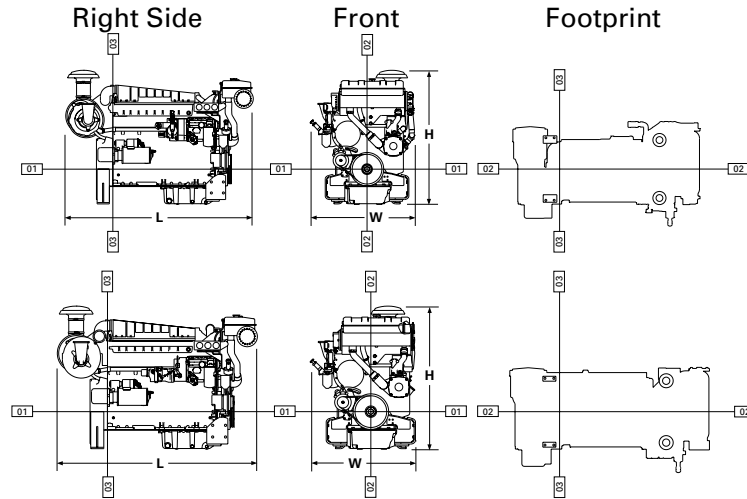
Air Starting Motor
 Alarm Contactor — Oil Pressure, Water Temperature
 24V 35 Amp, 24V 60 Amp Alternator
 Auxiliary Drive Pulley
 Digital Tachometer
 Double Wall Fuel Lines and Drain
 12V Electric Gauges — Oil Pressure, Water Temperature
 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
 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



DIMENSIONS*

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

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).

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.

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.

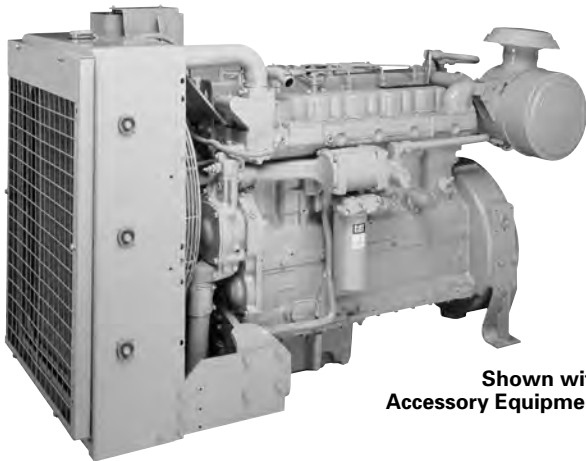


Marine Auxiliary Engine

3306B

Radiator Cooled

169 bkW (227 bhp) 230 mhp @ 1500 rpm



Shown with Accessory Equipment

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

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

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

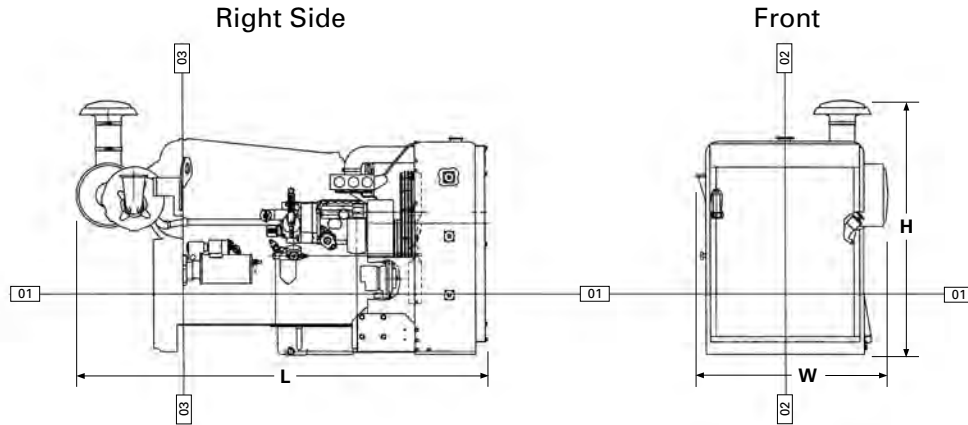
Spare Parts Kit

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



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%

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).

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.

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)

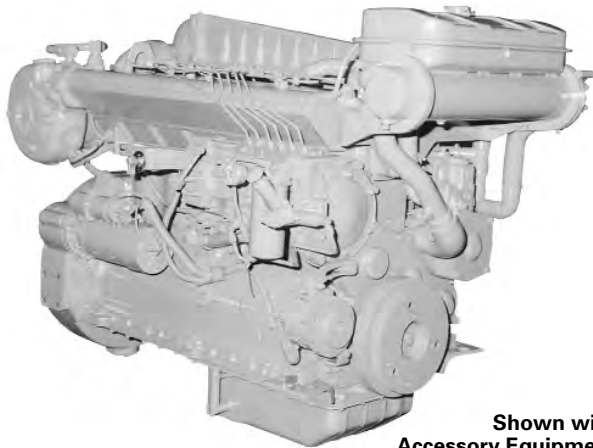
Materials and specifications are subject to change without notice.

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



Marine Auxiliary Engine 3306B

174 bkW (233 bhp) 236 mhp @ 1500 rpm



Shown with Accessory Equipment

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

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

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

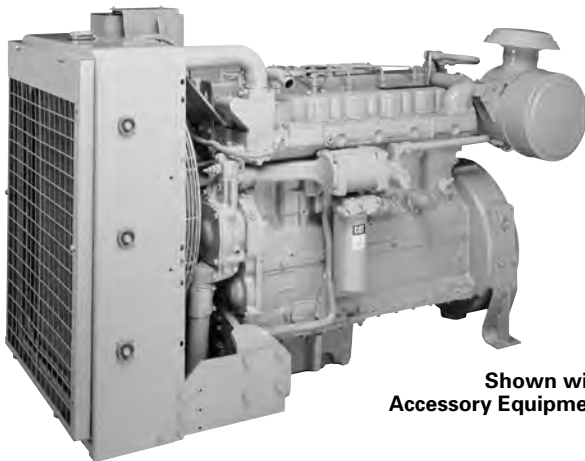


Marine Auxiliary Engine

3306B

Radiator Cooled

183 bkW (245 bhp) 248 mhp @ 1800 rpm



Shown with Accessory Equipment

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

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

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

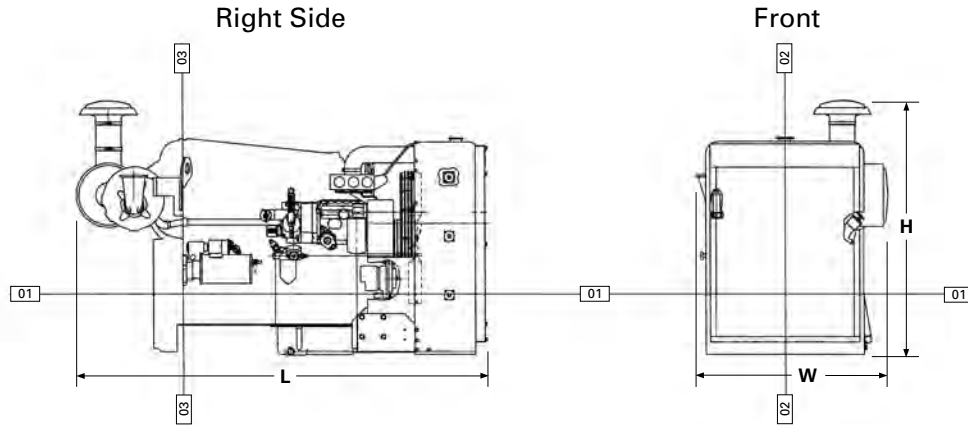
Spare Parts Kit

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



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%

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).

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.

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)

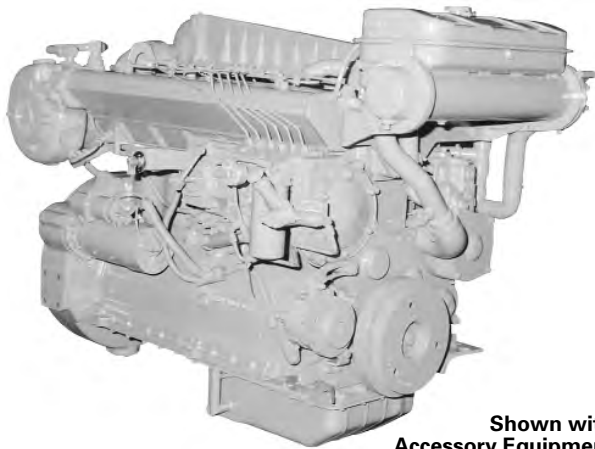
Materials and specifications are subject to change without notice.

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



Marine Auxiliary Engine 3306B

184 bkW (247 bhp) 251 mhp @ 1800 rpm



Shown with Accessory Equipment

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

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

ACCESSORY EQUIPMENT

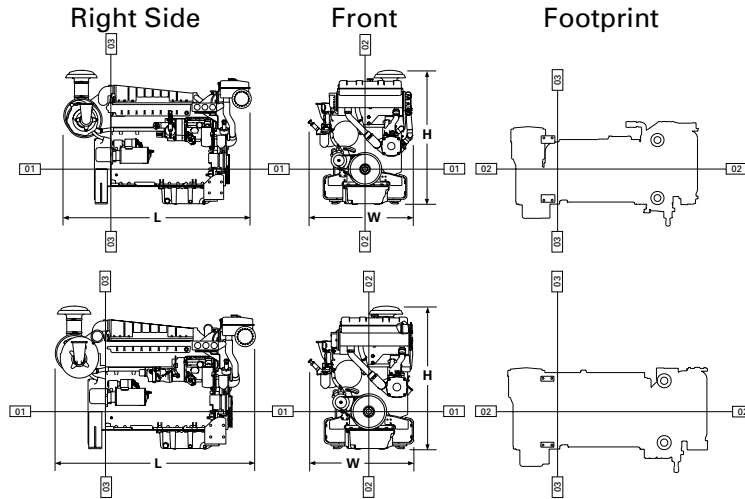
Air Starting Motor
 Alarm Contactor — Oil Pressure, Water Temperature
 24V 35 Amp, 24V 60 Amp Alternator
 Auxiliary Drive Pulley
 Digital Tachometer
 Double Wall Fuel Lines and Drain
 12V Electric Gauges — Oil Pressure, Water Temperature
 24V or 32V Electric Gauges — Oil Pressure, Water Temperature
 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



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%

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).

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.

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.: DM4992-00 (6-18-01)

Materials and specifications are subject to change without notice.

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

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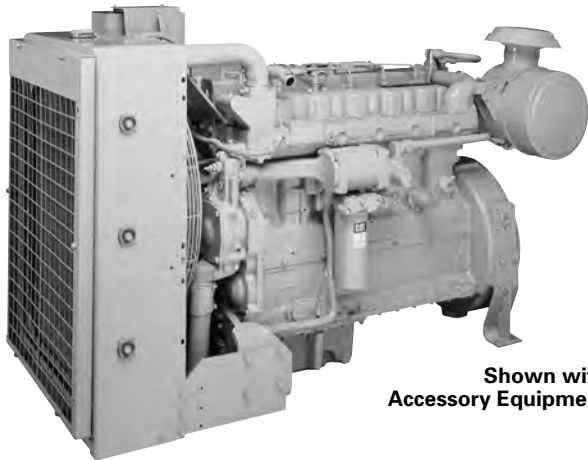


Marine Auxiliary Engine

3306B

Radiator Cooled

205 bkW (275 bhp) 279 mhp @ 1800 rpm



Shown with Accessory Equipment

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

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

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

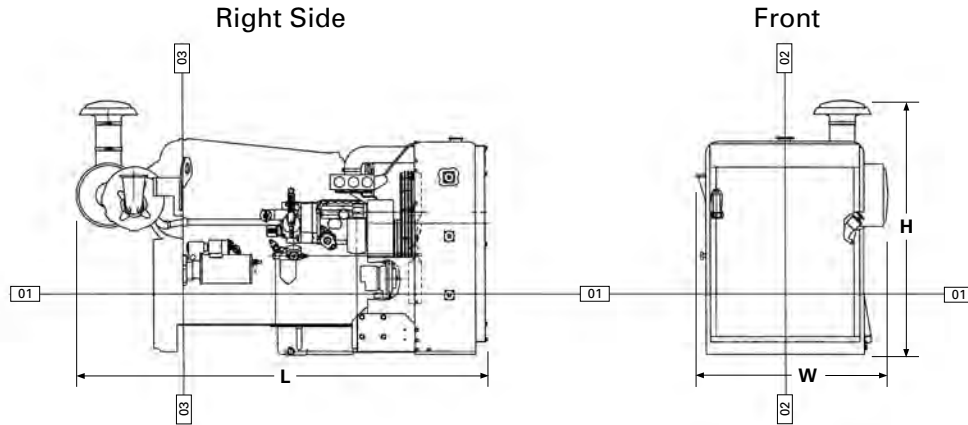
Spare Parts Kit

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



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%

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).

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.

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.: DM4995-00 (6-18-01)
 Materials and specifications are subject to change without notice.
 LEHM1563-00 (6-01)

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

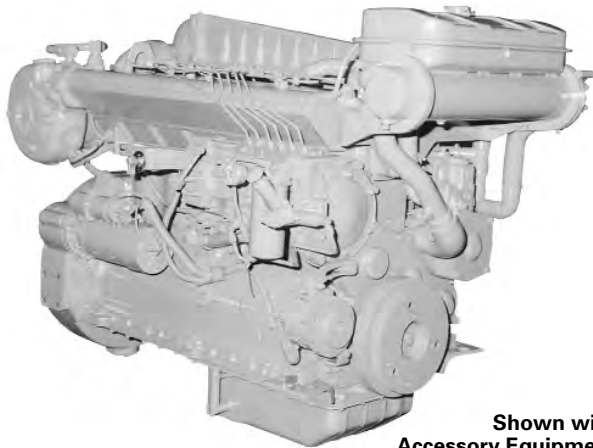
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Marine Auxiliary Engine 3306B

205 bkW (275 bhp) 279 mhp @ 1800 rpm



Shown with Accessory Equipment

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

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

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

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

