



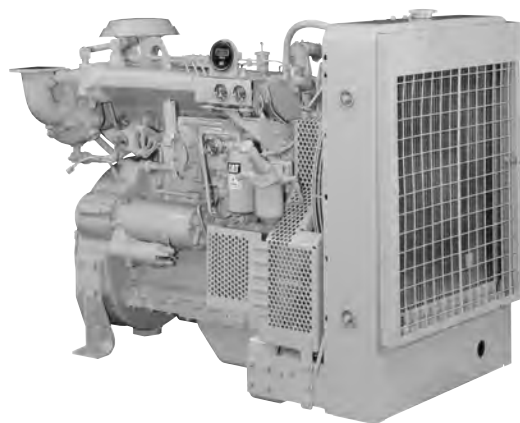
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CATERPILLAR®



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Accessory Equipment

STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

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

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 102 mm (3 in.)

Flywheel & 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

Marine Auxiliary Engine

3304B

Radiator Cooled

94 bkW (126 bhp) 128 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 Turbocharged

Governor Hydra-mechanical or PSG

Engine Weight, Net Dry (approx) 848 kg (1870 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 250 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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

12V Electric Starting Motor

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 Tachometer Drive

Paralleling Kit

Rear Enclosed Clutch and Support

RFI Filter

RH Oil Level Gauge

Solenoid Shutoff — 12V or 24V, ETR or ETS

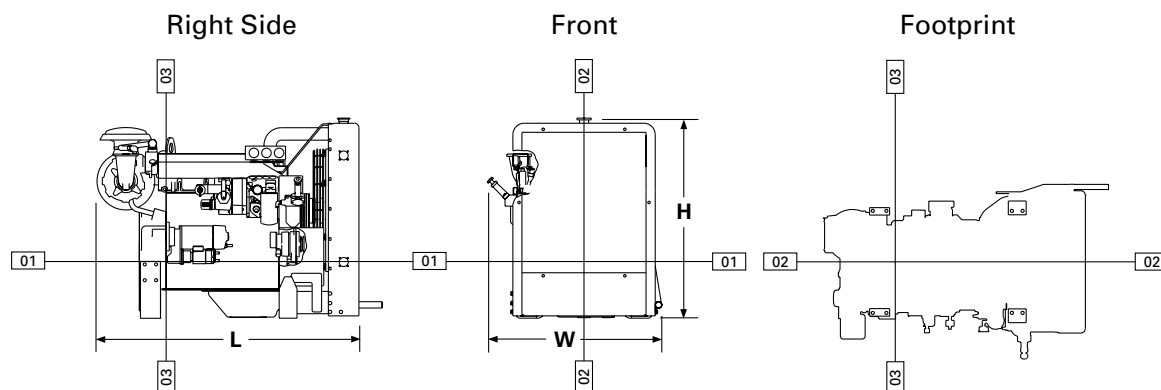
Spare Parts Kit

PERFORMANCE DATA

Turbocharged

DM4055-00

94 bkW (.8 pf) 126 bhp			
% load	bkW	Lph	gph
100	98	27.5	7.3
76	73	20.3	5.4
51	50	16.6	3.8
27	27	9.0	2.4



DIMENSIONS*

	mm	in.			
Overall Length	1467.6	57.8			
Length from front to rear face of block	1080.8	42.6			
Overall Height	1120.9	44.1			
Height from crankshaft centerline to top of engine	803.5	31.6			
Height from crankshaft centerline to bottom of oil pan	317.4	12.5			
Overall Width	979.4	38.6			
Width from crankshaft centerline to port side (left side)	436.6	17.2			
Width from crankshaft centerline to starboard side (right side)	542.8	21.4			

*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.: DM4055-00 (6-18-01)

Materials and specifications are subject to change without notice.

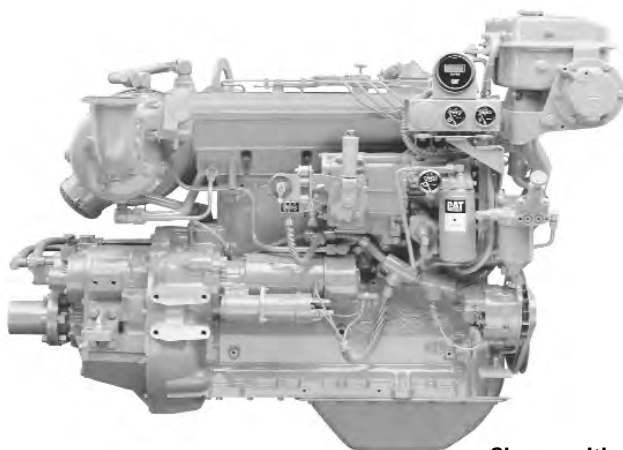
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STANDARD EQUIPMENT

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 elbow and flange, 102 mm (4 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

Marine Auxiliary Engine

3304B

100 bkW (134 bhp) 136 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 Turbocharged
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
Heat Exchanger Cooled 832 kg (1835 lb)
Keel Cooled 775 kg (1710 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

ACCESSORY EQUIPMENT

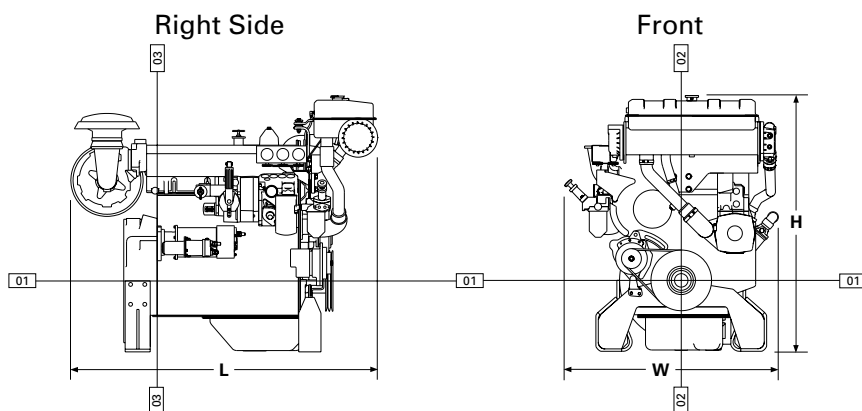
Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
12V 51 Amp, 24V 35 Amp or 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure,
Water Temperature
Electric Shutoffs — Oil Pressure, Water Temperature,
Overspeed
12V Electric Starting Motor
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
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

TM8322-00

100 bkW (.8 pf) 134 bhp			
% load	bkW	Lph	gph
100	95	26.7	7.1
71	67	18.7	4.9
47	45	13.3	3.5
24	24	8.3	2.2



DIMENSIONS*

	mm	in.			
Overall Length	1373.4	54.1			
Length from front to rear face of block	986.6	38.8			
Length from rear face of block to end of engine	386.8	15.2			
Overall Height	1145.2	45.1			
Height from crankshaft centerline to top of engine	827.7	32.6			
Height from crankshaft centerline to bottom of oil pan	317.5	12.5			
Overall Width	957.5	37.7			
Width from crankshaft centerline to port side (left side)	434.8	17.1			
Width from crankshaft centerline to starboard side (right side)	522.7	20.6			

*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.

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.: TM8322-00 (6-15-01)

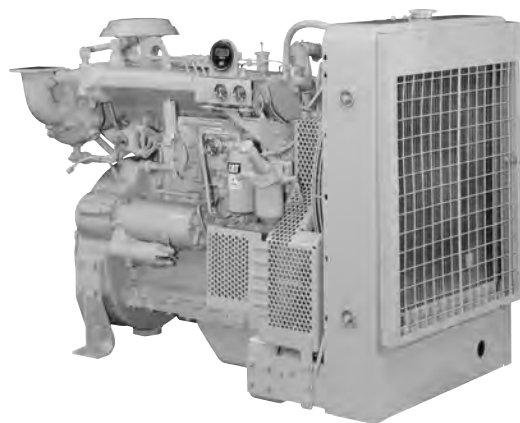
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STANDARD EQUIPMENT

Air Inlet System

Regular duty single stage air cleaner, rain cap

Charging System

24V 35 Amp alternator

Cooling System

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

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 102 mm (4 in.)

Flywheel & 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

Marine Auxiliary Engine

3304B

Radiator Cooled

116 bkW (156 bhp) 158 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 Turbocharged

Governor Hydra-mechanical or PSG

Engine Weight, Net Dry (approx) 848 kg (1870 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 250 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

Fuel Ratio Control

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

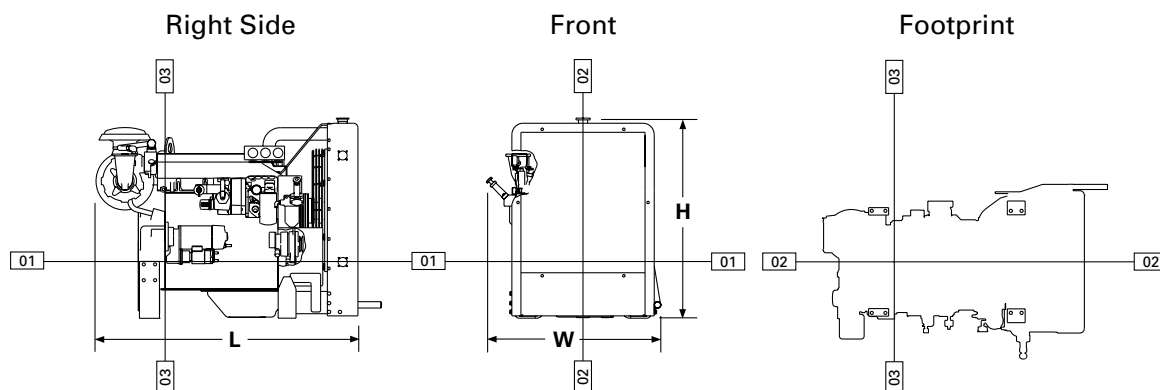
Spare Parts Kit

PERFORMANCE DATA

Turbocharged

DM4056-00

116 bkW (.8 pf) 156 bhp			
% load	bkW	Lph	gph
94	102	35.8	9.5
74	89	25.0	6.6
53	66	19.0	5.0
23	30	10.8	2.9



DIMENSIONS*

	mm	in.		
Overall Length	1467.6	57.8		
Length from front to rear face of block	1080.8	42.6		
Overall Height	1120.9	44.1		
Height from crankshaft centerline to top of engine	803.5	31.6		
Height from crankshaft centerline to bottom of oil pan	317.4	12.5		
Overall Width	979.4	38.6		
Width from crankshaft centerline to port side (left side)	436.6	17.2		
Width from crankshaft centerline to starboard side (right side)	542.8	21.4		
	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	17.5	0.7		
Width from crankshaft centerline to side	285.7	11.3	285.7	11.3
Length from rear face of block to mounting holes	653.4	25.7	49.6	2.0
	713.4	28.1	125.8	5.0

*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.: DM4056-00 (6-18-01)

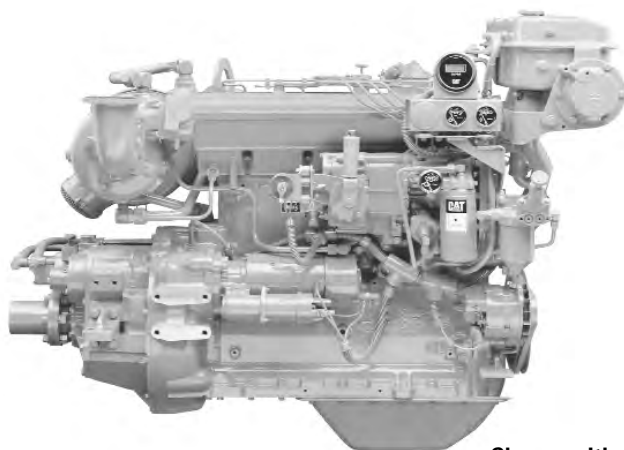
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STANDARD EQUIPMENT

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 elbow and flange, 102 mm (4 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

Marine Auxiliary Engine

3304B

119 bkW (160 bhp) 162 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 Turbocharged
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx)
Heat Exchanger Cooled 832 kg (1835 lb)
Keel Cooled 775 kg (1710 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

ACCESSORY EQUIPMENT

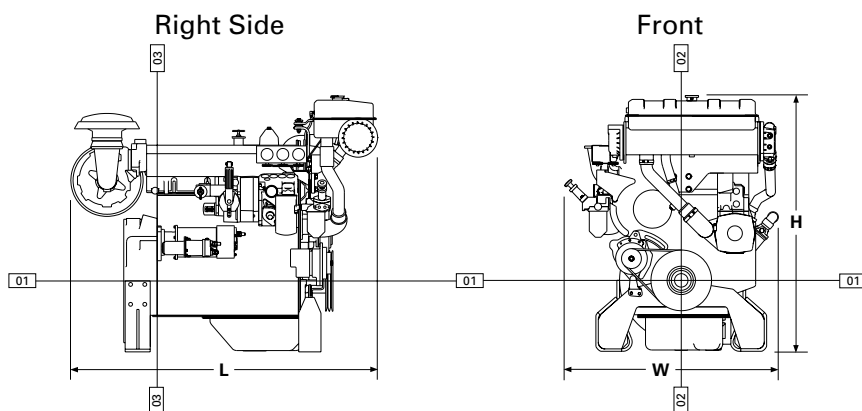
Air Starting Motor
Alarm Contactor — Oil Pressure, Water Temperature
12V 51 Amp, 24V 35 Amp or 60 Amp Alternator
Auxiliary Drive Pulley
Digital Tachometer
Double Wall Fuel Lines and Drain
12V Electric Gauges — Oil Pressure, Water Temperature
24V or 32V Electric Gauges — Oil Pressure,
Water Temperature
Electric Shutoffs— Oil Pressure, Water Temperature,
Overspeed
12V Electric Starting Motor
Ether Starting Aid
Exhaust Elbow, Pipe, Flexible Fittings
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

TM7786-00

119 bkW (.8 pf) 160 bhp			
% load	bkW	Lph	gph
100	116	33.0	8.7
76	88	25.1	6.6
48	56	16.9	4.5
29	35	11.9	3.1



DIMENSIONS*

	mm	in.
Overall Length	1373.4	54.1
Length from front to rear face of block	986.6	38.8
Length from rear face of block to end of engine	386.8	15.2
Overall Height	1145.2	45.1
Height from crankshaft centerline to top of engine	827.7	32.6
Height from crankshaft centerline to bottom of oil pan	317.5	12.5
Overall Width	957.5	37.7
Width from crankshaft centerline to port side (left side)	434.8	17.1
Width from crankshaft centerline to starboard side (right side)	522.7	20.6
	Front	Rear
	mm in.	mm in.
Customer mounting hole diameter	17.5 0.7	17.0 0.7
Width from crankshaft centerline to side	285.1 11.3	285.8 11.3
Length from rear face of block to mounting hole	653.4 25.7	76.2 3.0
	711.4 28.0	125.7 5.0

*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.: TM7786-00 (6-15-01)

Materials and specifications are subject to change without notice.

LEHM1538-00 (6-01)

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