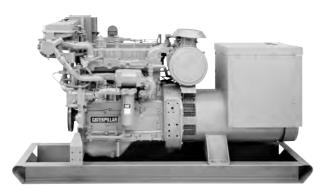
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YOUR ONE STOP SUPERSTORE FOR DIESEL ENGINE PARTS





Shown with Accessory Equipment; Radiator Not Shown

#### STANDARD EQUIPMENT

#### Air Inlet System

Regular duty single stage air cleaner, rain cap

#### **Charging System**

24V 35 Amp alternator

#### **Cooling System**

Engine mounted radiator, blower fan, fan drive, fan guard, oil cooler, thermostat and housing, gear driven centrifugal jacket water pump

#### **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

#### **Generator and Attachments**

Brushless PM excited SR4 generator

#### 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, narrow base

#### Starting System

24 Volt electric starting motor

#### Genera

Caterpillar yellow paint, lifting eyes

## Marine Generator Set

3304B

Radiator Cooled

50 ekW (63 kVA) 50 Hz @ 1500 rpm

#### **SPECIFICATIONS**

#### I-4, 4-Stroke-Cycle-Diesel

#### **ACCESSORY EQUIPMENT**

Air Starting Motor

Alarm Contactor — Oil Pressure, Water Temperature 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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

**Extension Terminal Box** 

High Capacity Radiator and Fan Drive

Hydraulic Pump Drive

Low Voltage Connections

Magnetic Pickup

Manual Shutoff Lever

Manual Voltage Control

Mechanical Overspeed Contactor

Mechanical Tachometer Drive

Paralleling Kit

RFI Filter

RH Oil Level Gauge

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

Spare Parts Kit

**Terminal Strip Connections** 

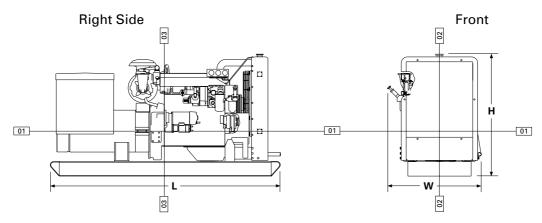
#### PERFORMANCE DATA

#### Naturally Aspirated

#### DM4053-00

50 ekW (.8 pf) 63 kVA			
% load	ekW	Lph	gph
100	52	17.4	4.6
76	40	12.9	3.4
52	27	9.4	2.5
23	12	5.8	1.5

### **3304B** MARINE GENERATOR SET — 50 ekW (63 kVA)



#### **DIMENSIONS\***

	mm	in.
Overall Length	2400.0	94.5
Length from front to rear face of block	1080.8	42.6
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1273.5	50.1
Height from crankshaft centerline to top of engine	803.5	31.6
Height from crankshaft centerline to bottom of rails	470.0	18.5
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

	mm	in.	mm	in.
Customer mounting hole diameter			20.5	8.0
Width from crankshaft centerline to side			302.3	11.9
Length from rear face of block to mounting hole	678.5	26.7	445.5	17.5

<sup>\*</sup>Illustrations and dimensions from drawing: 128-3807.

#### **CATERPILLAR SR4 GENERATOR**

Type Brushless, revolving field, permanent magnet excited
Construction Single bearing, close coupled
Three-phase 12 wire, wye or delta connected
Insulation Class F with tropicalization and anti-abrasion
Voltage Regulator Generator mounted, volts-per-hertz
Voltage Regulation±1/2%
Voltage Gain Adjustable
Generator Weight, Net (approx)
365 frame 381 kg (840 lb)
Space Heater
Voltages Available (adjustable +10%, -5%) 50 Hz — 190-380 volts
Meets or exceeds Marine Society requirements

#### RATING CONDITIONS

**Front** 

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

Rear

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.

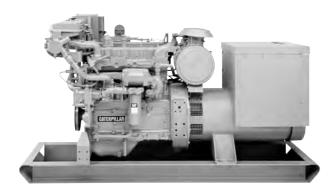
Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions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

TMI Reference No.: DM4053-00 (6-15-01)

Materials and specifications are subject to change without notice.

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Shown with Accessory Equipment; Radiator Not Shown

#### STANDARD EQUIPMENT

#### Air Inlet System

Regular duty single stage air cleaner, rain cap

#### **Charging System**

24V 35 Amp alternator

#### **Cooling System**

Engine mounted radiator, blower fan, fan drive, fan guard, oil cooler, thermostat and housing, gear driven centrifugal jacket water pump

#### **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

#### **Generator and Attachments**

Brushless PM excited SR4 generator

#### 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, narrow base

#### Starting System

24 Volt electric starting motor

#### General

Caterpillar yellow paint, lifting eyes

## Marine Generator Set

3304B

Radiator Cooled

65 ekW (81 kVA) 60 Hz @ 1800 rpm

#### **SPECIFICATIONS**

#### I-4, 4-Stroke-Cycle-Diesel

Emissions IMO compliant Displacement 7.0 L (425 cu. in.)
Bore
Stroke 152 mm (6.0 in.)
Aspiration Naturally Aspirated
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) 1225 kg (2700 lb)
Capacity for Liquids
Cooling System
(engine & radiator)
Lube Oil System (refill) 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 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 Temp.

Electric Shutoffs — Oil Pressure, Water Temp.,

Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

**Extension Terminal Box** 

High Capacity Radiator and Fan Drive

Hydraulic Pump Drive

Low Voltage Connections

Magnetic Pickup

Manual Shutoff Lever

Manual Voltage Control

Mechanical Overspeed Contactor

Mechanical Tachometer Drive

Paralleling Kit

RFI Filter

RH Oil Level Gauge

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

Spare Parts Kit

**Terminal Strip Connections** 

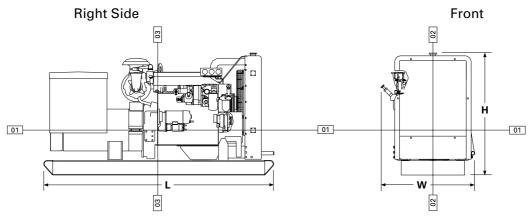
#### PERFORMANCE DATA

#### Naturally Aspirated

#### DM4054-00

65 ekW (.8 pf) 81 kVA				
% load	ekW	Lph	gph	
100	69	24.9	6.6	
76	53	17.2	4.5	
53	36	12.5	3.3	
24	17	7.6	2.0	

### **3304B** MARINE GENERATOR SET — 65 ekW (81 kVA)



#### **DIMENSIONS\***

	mm	in.
Overall Length	2400.0	94.5
Length from front to rear face of block	1080.8	42.6
Length from rear face of block to back of generator	1131.9	44.6
Overall Height	1273.5	50.1
Height from crankshaft centerline to top of engine	803.5	31.6
Height from crankshaft centerline to bottom of rails	470.0	18.5
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

mm	in.	mm	in.
		20.5	8.0
		302.3	11.9
678.5	26.7	445.5	17.5
		mm in. 678.5 26.7	20.5 302.3

<sup>\*</sup>Illustrations and dimensions from drawing: 128-3807.

#### **CATERPILLAR SR4 GENERATOR**

Type Brushless, revolving field, permanent magnet excited
Construction Single bearing, close coupled
Three-phase 12 wire, wye or delta connected
Insulation Class F with tropicalization and anti-abrasion
Voltage Regulator Generator mounted, volts-per-hertz
Voltage Regulation±1/2%
Voltage Gain Adjustable
Generator Weight, Net (approx)
365 frame 381 kg (840 lb)
Space Heater
Voltages Available (adjustable +10%, -5%) 60 Hz — 220-440 volts
Meets or exceeds Marine Society requirements

#### RATING CONDITIONS

**Front** 

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

Rear

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.

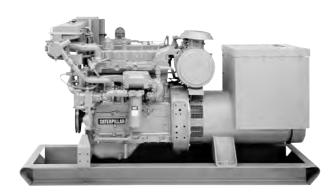
Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions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

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

Materials and specifications are subject to change without notice.

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Shown with 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 self priming centrifugal auxiliary water pump with rubber impeller (heat exchanger engines), gear driven centrifugal jacket water pump, 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

#### **Generator and Attachments**

Brushless PM excited SR4 generator

#### 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

24 Volt electric starting motor

#### General

Caterpillar yellow paint, lifting eyes

## Marine Generator Set

# 3304B

50 ekW (63 kVA) 50 Hz @ 1500 rpm

#### **SPECIFICATIONS**

#### I-4, 4-Stroke-Cycle-Diesel

EmissionsIMO compliant
Displacement
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
Keel Cooled
Capacity for Liquids
Cooling System (engine only) 13 L (3.5 U.S. gal)
Lube Oil System (refill) 22 L (5.7 U.S. gal)
Oil Change Interval
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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

**Extension Terminal Box** 

Hydraulic Pump Drive and Adapter

Low Voltage Connections

Magnetic Pickup

Manual Shutoff Lever

Manual Voltage Control

Mechanical Tachometer Drive

Mechanical Overspeed Contactor

Paralleling Kit

**RFI Filter** 

RH Oil Level Gauge

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

Spare Parts Kit

Terminal Strip Connections

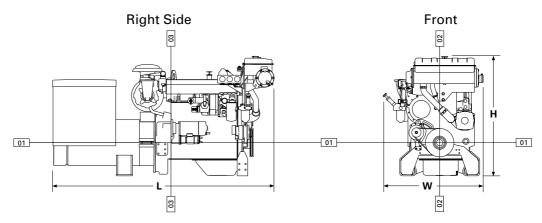
#### PERFORMANCE DATA

#### Naturally Aspirated

#### TM1975-01

50 ekW (.8 pf) 63 kVA				
% load	ekW	Lph	gph	
100	50	16.1	4.3	
70	35	11.4	3.0	
50	25	8.8	2.3	
20	10	5.2	1.4	

### **3304B** MARINE GENERATOR SET — 50 ekW (63 kVA)



#### **DIMENSIONS\***

	mm	in.
Overall Length	2007.1	79.0
Length from front to rear face of block	986.6	38.8
Length from rear face of block to back of generator	1020.5	40.2
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 rails	317.5	12.5
Overall Width	917.7	36.1
Width from crankshaft centerline to port side (left side)	374.9	14.8
Width from crankshaft centerline to starboard side (right side)	542.8	21.4

	mm	in.	mm	in.
Customer mounting hole diameter	17.5	0.7	22.5	0.9
Width from crankshaft centerline to side	285.8	11.3	285.8	11.3
Length from rear face of block to mounting holes			407.1	16.0
-			483.3	19.0

<sup>\*</sup>Illustrations and dimensions from drawing: 118-7826.

#### **CATERPILLAR SR4 GENERATOR**

Type Brushless, revolving field, permanent magnet excited
Construction Single bearing, close coupled
Three-phase 12 wire, wye or delta connected
Insulation Class F with tropicalization and anti-abrasion
Voltage Regulator Generator mounted, volts-per-hertz
Voltage Regulation±1/2%
Voltage Gain Adjustable
Generator Weight, Net (approx)
365 frame 381 kg (840 lb)
Space Heater
Voltages Available (adjustable +10%, -5%) 50 Hz — 190-380 volts
Meets or exceeds Marine Society requirements

#### RATING CONDITIONS

**Front** 

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

Rear

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.

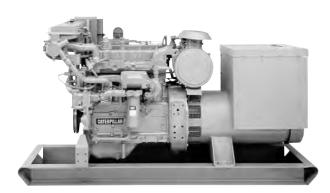
Performance data is calculated in accordance with tolerances and conditions stated in this specification sheet and is only intended for purposes of comparison with other manufacturers' engines. Actual engine performance may vary according to the particular application of the engine and operating conditions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

TMI Reference No.: TM1975-01 (6-18-01)

Materials and specifications are subject to change without notice.

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Shown with 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 self priming centrifugal auxiliary water pump with rubber impeller (heat exchanger engines), gear driven centrifugal jacket water pump, 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

#### **Generator and Attachments**

Brushless PM excited SR4 generator

#### 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**

24 Volt electric starting motor

#### General

Caterpillar yellow paint, lifting eyes

## Marine Generator Set

# 3304B

65 ekW (81 kVA) 60 Hz @ 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
Engine Weight, Net Dry (approx) Heat Exchanger Cooled
Capacity for Liquids Cooling System (engine only) 13 L (3.5 U.S. gal) Lube Oil System (refill) 22 L (5.7 U.S. gal)
Oil Change Interval
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 Temp.

Electric Shutoffs — Oil Pressure, Water Temperature, Overspeed

12V Electric Starting Motor

Ether Starting Aid

Exhaust Elbow, Pipe, Flexible Fittings

**Extension Terminal Box** 

Hydraulic Pump Drive and Adapter

Low Voltage Connections

Magnetic Pickup

Manual Shutoff Lever

Manual Voltage Control

Mechanical Tachometer Drive

Mechanical Overspeed Contactor

Paralleling Kit

**RFI Filter** 

RH Oil Level Gauge

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

Spare Parts Kit

**Terminal Strip Connections** 

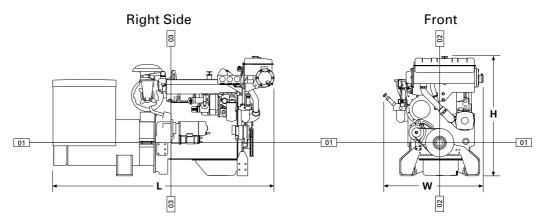
#### PERFORMANCE DATA

#### Naturally Aspirated

#### TM8324-01

11110024 01				
65 ekW (.8 pf) 81 kVA				
% load	ekW	Lph	gph	
100	65	22.7	6.0	
77	50	16.5	4.4	
54	35	12.3	3.2	
39	25	9.8	2.6	

### **3304B** MARINE GENERATOR SET — 65 ekW (81 kVA)



#### **DIMENSIONS\***

	mm	in.
Overall Length	2007.1	79.0
Length from front to rear face of block	986.6	38.8
Length from rear face of block to back of generator	1020.5	40.2
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 rails	317.5	12.5
Overall Width	917.7	36.1
Width from crankshaft centerline to port side (left side)	374.9	14.8
Width from crankshaft centerline to starboard side (right side)	542.8	21.4

	mm	in.	mm	in.
Customer mounting hole diameter	17.5	0.7	22.5	0.9
Width from crankshaft centerline to side	285.8	11.3	285.8	11.3
Length from rear face of block to mounting holes			407.1	16.0
-			483.3	19.0

<sup>\*</sup>Illustrations and dimensions from drawing: 118-7826.

#### **CATERPILLAR SR4 GENERATOR**

Type Brushless, revolving field, permanent magnet excited
Construction Single bearing, close coupled
Three-phase 12 wire, wye or delta connected
Insulation Class F with tropicalization and anti-abrasion
Voltage Regulator Generator mounted, volts-per-hertz
Voltage Regulation±1/2%
Voltage Gain Adjustable
Generator Weight, Net (approx)
365 frame 381 kg (840 lb)
Space Heater
Voltages Available (adjustable +10%, -5%) 60 Hz — 220-440 volts
Meets or exceeds Marine Society requirements

#### **RATING CONDITIONS**

**Front** 

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

Rear

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.: TM8324-01 (6-15-01)

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