

3508B MARINE AUXILIARY

760 bkW (1019 bhp) 1033 mhp

IMAGE IS NOT AVAILABLE

SPECIFICATIONS

V-8, 4-Stroke-Cycle-Diesel
EmissionsIMO compliant
Displacement
Rated Engine Speed
Bore 170 mm (6.7 in.)
Stroke
AspirationTurbocharged-Aftercooled
Governor Electronic
Engine Weight, Net Dry (approx) 5216 kg (11,500 lb)
Capacity for Liquids
Cooling System (engine only) 285 L (75.3 U.S. gal)
Lube Oil System 223 L (59 U.S. gal)
Oil Change Interval 500 hr
Caterpillar® DEO 10W30 or 15W40
Rotation (from flywheel end)Counterclockwise
or Clockwise

STANDARD EQUIPMENT

Air Inlet System

Corrosion-resistant separate circuit aftercooler core (air side); regular duty air cleaner; dual turbochargers, 152 mm (6 in.) OD

Cooling System

Non-self-priming centrifugal auxiliary sea water pump, gear driven centrifugal jacket water pump, auxiliary fresh water pump, expansion tank, oil cooler, thermostats and housing with 92°C (198°F) full open temperature

Exhaust System

Dry gas tight manifolds with thermo-laminated heat shields; dual turbochargers with water cooled bearings and thermo-laminated heat shields; vertical exhaust outlet, 203 mm (8 in.) round flanged outlet

Flywheel and Flywheel Housing

SAE No. 00 (183 teeth)

Fuel System

RH fuel filter with service indicators, fuel transfer pump, Electronic Unit Injector (EUI) fuel system

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; system DC voltage gauge; air inlet restriction gauge; exhaust temperature gauges; fuel and oil filter differential pressure gauges; service meter; tachometer; instantaneous fuel consumption; four-position start-stop

Lube System

Top-mounted crankcase breather, RH oil filter and oil level gauge, gear-type oil pump, standard sump oil pan

Mounting System

Engine length mounting rails, 254 mm (10 in.); C-channel

Power Take-Offs

Lower RH and LH accessory drive, two-sided front housing

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

24V 60 Amp Alternator 24V Electric Starting Motor Air Inlet Overspeed Shutoffs Air Starting Motor Auxiliary Drive Pulley and Shaft

Crankshaft Pulleys

Customer Communication Module (CCM) Deep Sump Oil Pan

Dual Jacket Water Heater

Duplex Fuel Filter Duplex Oil Filter

Exhaust Elbow, Flange, Flexible Fitting

Front Enclosed Clutch Front Stub Shafts

Generators — 630 to 910 ekW

Air Filter, Bearing Temperature Detectors, Low Voltage Extension Box, RFI Filter, Voltage Regulator (Auto, Digital, Manual)

Heat Exchanger

Instrument Panel Extension Harness — 8M or 16M

Keel Cooling Connections

LH Engine-Mounted Instrument Panel

LH Fuel Priming Pump Load Sharing Module

Premium Wiring Harness Program Relay Control Module

Pyrometer and Thermocouples

Pyrometer Extension Harness — 8M or 16M

Radiator Cooling Conversion

Self-Priming Auxiliary Sea Water Pump

Shutoff and Alarm Contactors for Oil Pres. and Water Temp.

Spare Parts Kit Sump Pump

Upper RH Front Accessory Drives

PERFORMANCE DATA

Turbocharged-Aftercooled

DM4551-02 Aftercooler Temperature 30°C (86°F)

760 bkW (.8 pf) 1019 bhp					
% load	bkW	Lph	gph		
100	753	186.8	49.3		
75	562	143.9	38.0		
50	375	101.7	26.9		
25	191	60.6	16.0		

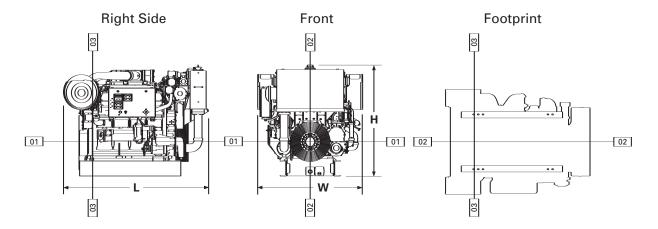
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CATERPILLAR®

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DIMENSIONS*

Overall Length Length from front to rear face of block Length from rear face of block to back of engine	mm 2350.4 1880.0 470.4	in. 92.5 74.0 18.5
Overall Height Height from crankshaft centerline to top of engine Height from crankshaft centerline to bottom of rails	1806.3 1247.8 558.5	71.1 49.1 22.0
Overall Width Width from crankshaft centerline to port side (left side) Width from crankshaft centerline to starboard side (right side)	1703.0 851.5 851.5	67.1 33.5 33.5

	LIO	rioni		near	
	mm	in.	mm	in.	
Customer mounting hole diameter	23.8	0.9	23.8	0.9	
Width from crankshaft centerline to side	444.5	17.5	444.5	17.5	
Length from rear face of block to mounting hole	1196.0	47.1	65.7	2.6	
· ·	1272.2	50.1	141.9	5.6	
			10.5	0.4	

^{*}Illustrations and dimensions from drawing: 125-6278.

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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