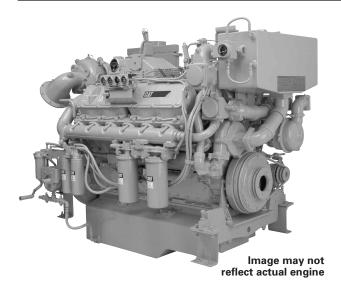
CATERPILLAR®

3412C MARINE AUXILIARY

620 bkW (831 bhp) 843 mhp



SPECIFICATIONS

V-12, 4-Stroke-Cycle-Diesel

EmissionsIMO compliant
Displacement 27 L (1649 cu. in.)
Bore
Stroke 152 mm (6.0 in.)
AspirationTurbocharged-Aftercooled
Governor Hydra-mechanical or PSG
Engine Weight, Net Dry (approx) 2360 kg (5200 lbs)
Capacity for Liquids
Cooling System (engine only) 61 L (16.25 U.S. gal)
Lube Oil System 68 L (18 U.S. gal)
Oil Change Interval 500 hr
Caterpillar® DEO 10W30 or 15W40
Rotation (from flywheel end)Counterclockwise

STANDARD EQUIPMENT

Air Inlet System

Corrosion-resistant aftercooler core; turbocharger inlet, 254 mm (10 in.); regular duty panel-type air cleaner; air cleaner inlet adapter, 152 mm (6 in.)

Cooling System

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

Exhaust System

Watercooled manifold and turbocharger; dry elbow and flange, 203 mm (8 in.)

Flywheel and Flywheel Housing

SAE No. 0 (136 teeth)

Fuel System

Fuel priming pump, fuel transfer pump, RH fuel filter, flexible fuel lines

Instruments

RH instrument panel with oil pressure, water temperature, and fuel pressure gauges; service meter

Lube System

RH oil level gauge and oil filter, crankcase breather, oil filler in valve cover, deep sump oil pan

Mounting System

Supports

General

Vibration damper, Caterpillar yellow paint, lifting eyes

ACCESSORY EQUIPMENT

Air starting motor

24V 35 amp, 24V 60 amp alternator

32V 60 amp alternator

Alarm contactor — oil pressure, water temperature

Auxiliary sea water pump

Digital tachometer

Double wall fuel lines and drain

Dry charge coolant conditioner

Duplex fuel filter

Duplex oil filter

24V or 32V electric gauges

24V, 30 or 32V electric starting motor

24V electric shutoffs — oil pressure, water

temperature, overspeed

Exhaust elbows, pipe, flange, flexible fittings

Front enclosed clutch

Front stub shaft

Generator installation arrangement

Heat exchanger

Hydraulic pump drive and adapter

4- or 8-hole instrument panel

LH oil level gauge

Magnetic pickup

Mechanical shutoffs — oil pressure, water temperature

Mechanical tachometer drive

Primary fuel filter/water separator

Solenoid shutoffs — 24V ETR, ETS

Spare parts kit

PERFORMANCE DATA

Turbocharged-Aftercooled

DM6089-00

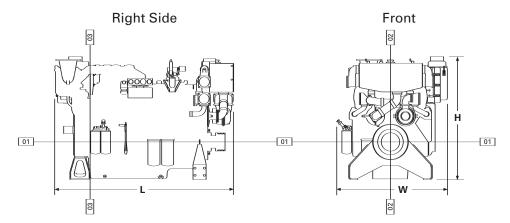
טט-פטטטועום						
620 bkW (.8 pf) 831 bhp						
% load	bkW	Lph	gph			
100	620	166.1	43.9			
75	466	122.4	32.3			
50	314	84.9	22.4			
25	163	50.0	13.2			

LEHM1571-02 Page 1 of 2

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DIMENSIONS*

	mm	in.
Overall Length	2047.3	80.6
Length from front to rear face of block	1643.2	64.7
Length from rear face of block to back of engine	404.1	15.9
Overall Height	1409.7	55.5
Height from crankshaft centerline to top of engine	977.9	38.5
Height from crankshaft centerline to bottom of oil pan	431.8	17.0
Overall Width	1266.7	49.9
Width from crankshaft centerline to port side (left side)	650.7	25.6
Width from crankshaft centerline to starboard side (right side)	616.0	24.3

	Front		Rear	
	mm	in.	mm	in.
Customer mounting hole diameter	24.0	0.9	24.0	0.9
Width from crankshaft centerline to mounting holes	417.8	16.5	357.5	14.1
			417.8	16.5
Length from rear face of block to mounting holes	1196.5	47.1	40.3	1.6
	1310.8	51.6	192.7	7.6

^{*}Illustrations and dimensions from drawing: 5N7062.

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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