

IMAGE IS NOT
AVAILABLE

SPECIFICATIONS

V-8, 4-Stroke-Cycle-Diesel

Emissions IMO compliant
Displacement 34.5 L (2105 cu. in.)
Rated Engine Speed 1500 rpm
Bore 170 mm (6.7 in.)
Stroke 190 mm (7.5 in.)
Aspiration Turbocharged-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
Flywheel and Flywheel Housing SAE No. 00
Flywheel Teeth 183

STANDARD ENGINE 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

Fuel System

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

Instrumentation

RH electronic instrument panel with analog gauges and digital display of data for oil and fuel pressure, oil and fuel filter differential, system DC voltage, exhaust and water temperature, and air inlet restriction; digital display only for tachometer, service meter, and fuel consumption (total and instantaneous); engine start/stop switch

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

Protection System

ADEM II electronic monitoring system with customer programmable engine deration strategies, emergency stop pushbutton

General

Vibration damper and guard, Caterpillar yellow paint, lifting eyes

PERFORMANCE DATA

Turbocharged-Aftercooled

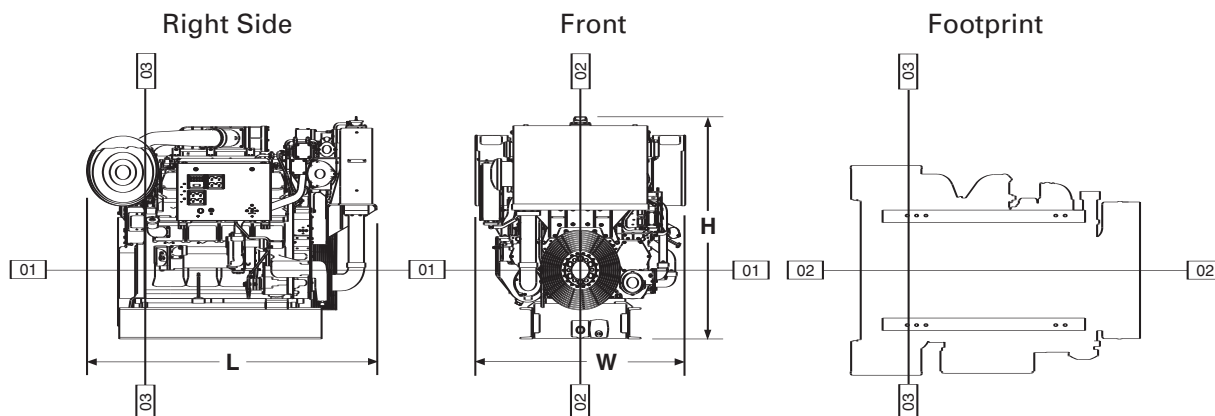
DM4554-02 Aftercooler Temperature 30°C (86°F)

663 bkW (.8 pf) 889 bhp			
% load	bkW	Lph	gph
100	663	157	41.4
75	495	120	31.8
50	330	84	22.3
25	168	49	13.1

Turbocharged-Aftercooled

DM4560-02 Aftercooler Temperature 60°C (140°F)

663 bkW (.8 pf) 889 bhp			
% load	bkW	Lph	gph
100	663	160	42.2
75	495	122	32.3
50	330	86	22.6
25	168	50	13.2



DIMENSIONS*

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

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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