CATERPILLAR®

Marine Propulsion

3054

80 bkW @ 2400 rpm 108 bhp @ 2400 rpm

SPECIFICATIONS

I-4, 4-Stroke-Cycle-Diesel

Bore-mm (in) 100 (3.94)
Stroke-mm (in) 127 (5.0)
Displacement-L (cu in) 4.0 (243)
Aspiration DIT
Rotation (from flywheel end) Counterclockwise
Compression Ratio 17.25:1
Capacity for Liquids—L (U.S. gal)
Cooling System 19 (5.0)
Lube Oil System (refill) 8.5 (2.25)
Oil Change Interval — hrs 250
Caterpillar DEO 10W30 or 15W40
Engine Weight (wet)
(approx) — kg (lb) 422.6 (933)
*Engines in E applications and some D applications where load factors are less than 30 percent may be capable of an extended service interval of up to 500 hours for lube oil and filter change

Exhaust System

dry insulated turbocharger, water cooled exhaust manifold

Flywheel and Flywheel Housing

SAE No. 3

Fuel System

fuel filter

Lube System

crankcase breather (closed system), oil filter, oil sump drain pump, LH service oil level gauge

Protection System

shutoff solenoid (ETS)

General

English decals, lifting eyes, plastic wrap packaging, belt cover



STANDARD ENGINE EQUIPMENT

Air Inlet System

air cleaner/fumes disposal (closed system), dry insulated turbocharger

Control System

mechanical governor

Cooling System

gear-driven centrifugal jacket water pump, geardriven self-priming sea water pump (heat exchanger cooled arrangements), heat exchanger with cupro-nickel tube bundle (heat exchanger cooled arrangements), de-aeration expansion tank, keel cooling connections (keel cooled arrangements), plate-type engine oil cooler in oil filter base, thermostat and housing, transmission oil cooler

Power produced at the flywheel will be within standard tolerances up to 50°C (122°F) combustion air temperature measured at the air cleaner inlet, and fuel temperature up to 52°C (125°F) measured at the fuel filter base. Power rated in accordance with NMMA procedure as crankshaft power. Reduce crankshaft power by 3% for propeller shaft power.

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PERFORMANCE CURVES

C Rating — DM6324-00



CATERPILLAR



with Newage PRM 500D Transmission

RATING DEFINITIONS AND CONDITIONS

C RATING – Vessels such as ferries, harbor tugs, fishing boats moving at higher speeds out and back (e.g. lobster, crayfish, and tuna), offshore service boats, and also displacement hull yachts and short trip coastal freighters where engine load and speed are cyclical.

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. Ratings are valid for air cleaner inlet temperatures up to and including 50°C (122°F). Emissions are certified for sea water temperatures of 30°C (86°F) and lower. No derates or engine life penalties will result from sea water temperatures up to and including 42°C (108°F).

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/liter (7.001 lbs/U.S. gal). Fuel consumption shown with all oil, fuel, and water pumps, engine driven. For a "without pumps" condition, deduct approximately 0.5% for each pump not engine driven.

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for additional information.

DIMENSIONS



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.: DM6324-00 (4-11-01) Materials and specifications are subject to change without notice.

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The International System of Units (SI) is used in this publication.