



Image may not reflect
actual engine

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions.....	IMO Compliant
Bore.....	100 mm (3.94 in.)
Stroke	127 mm (5.0 in.)
Displacement.....	6 L (365 cu. in.)
Aspiration.....	DITA
Rotation (from flywheel end) ..	Counterclockwise
Compression Ratio.....	16.0:1
Capacity for Liquids	
Cooling System	25.3 L (6.5 gal)
Lube Oil System (refill)	15 L (3.9 gal)
Oil Change Interval.....	400 hr
API CF-4, 15W40, 10W30	
Engine Weight (approx)	609 kg (1,342 lb)

STANDARD ENGINE EQUIPMENT

Air Inlet System

Air cleaner with closed system fumes disposal, sea water aftercooler, dry insulated turbocharger, thermostart air inlet heater

Charging System

Charging alternator (12-volt, 70 ampere or 24-volt, 40 ampere)

Control System

Mechanical governor

Cooling System

Gear-driven centrifugal jacket water pump and self-priming sea water pump, heat exchanger with cupro-nickel tube bundle or keel cooling connections, de-aeration expansion tank, integral plate-type engine oil cooler, sea water strainer, thermostat and housing

Exhaust System

Dry insulated turbocharger, watercooled exhaust manifold

Flywheel and Flywheel Housing

SAE No. 3 (126 teeth)

Fuel System

Twin fuel filter

Lube System

Crankcase breather (closed system), twin oil filter, engine-mounted oil sump drain pump, RH service oil level gauge

Mounting System

Adjustable mounts

Protection System

Shutoff solenoid (ETS), alarm switches (high jacket water temperature, low oil pressure)

Starting System

Electric starting motor (12-volt and 24-volt)

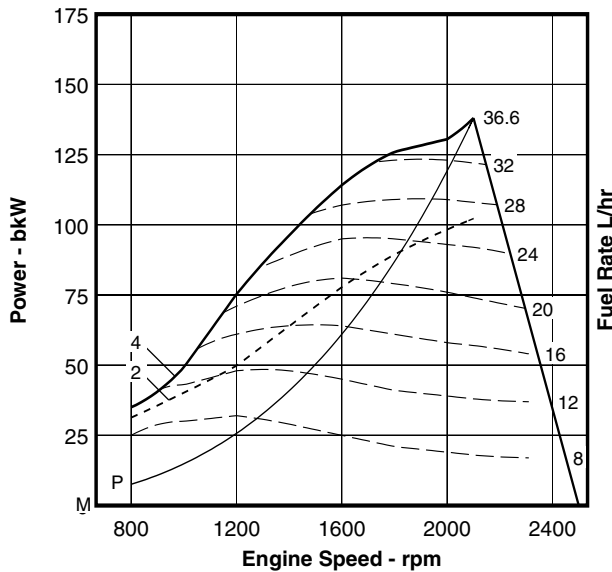
General

Vibration damper, Caterpillar yellow paint, lifting eyes

PERFORMANCE CURVES

C Rating — DM6308-00

IMO Compliant



138 kW

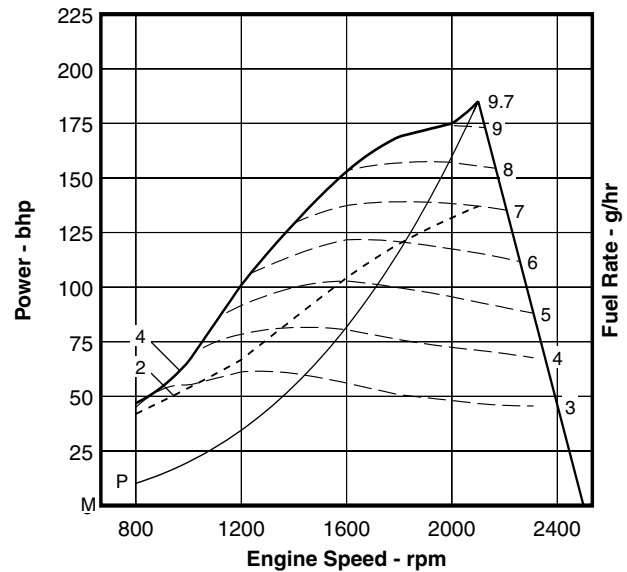
SI Metric

Performance Data

	Engine Speed rpm	Engine Power kW	BSFC g/kW-h	Fuel Rate L/h	Boost Press kPa Gauge	Intake Air Flow m ³ /min	Exh Manif Temp °C	Exh Gas Flow m ³ /min
Zone Limit	2100	102.2	218	26.6	86.4	9.3	422	19.4
Curve: 2	2000	98.3	215	25.2	82.1	8.6	420	18.1
	1800	89.4	211	22.5	72.2	7.3	422	15.7
	1600	77.8	208	19.3	58.8	6.0	423	13.2
	1400	63.9	206	15.7	43.6	4.8	422	10.6
	1200	49.8	207	12.3	30.3	3.7	414	8.1
	1000	40.2	228	10.9	24.0	2.8	410	6.3
	800	31.3	284	10.6	19.5	2.0	408	4.7

Zone Limit	2100	138.0	222	36.6	115.8	10.6	525	25.2
Curve: 4	2000	130.5	220	34.3	110.9	9.6	517	22.8
	1800	126.0	218	32.7	109.5	8.1	541	20.1
	1600	114.1	220	29.9	96.2	7.1	547	17.8
	1400	96.2	226	25.9	74.4	5.9	543	15.1
	1200	75.3	238	21.4	51.1	4.5	569	12.0
	1000	49.2	260	15.2	31.2	3.1	489	7.6
	800	35.0	296	12.3	22.8	2.1	450	5.3

Prop Demand	2100	138.0	222	36.6	115.8	10.6	525	25.2
Curve: P	2000	119.2	217	30.8	100.4	9.3	481	21.2
	1800	86.9	212	21.9	70.0	7.2	415	15.4
	1600	61.0	211	15.4	45.5	5.5	366	11.1
	1400	40.9	213	10.4	27.9	4.2	316	8.1
	1200	25.7	218	6.7	18.6	3.3	262	5.8
	1000	14.9	247	4.4	12.5	2.4	211	3.9
	800	7.6	322	2.9	9.6	1.7	167	2.5



185 hp

English

Performance Data

	Engine Speed rpm	Engine Power hp	BSFC lb/hp-h	Fuel Rate gph	Boost Press in.Hg. Gauge	Intake Air Flow cfm	Exh Manif Temp °F	Exh Gas Flow cfm
Zone Limit	2100	137	.359	7.0	25.6	328	791	685
Curve: 2	2000	132	.353	6.7	24.3	303	789	639
	1800	120	.347	5.9	21.4	258	791	554
	1600	104	.342	5.1	17.4	212	793	466
	1400	86	.339	4.1	12.9	169	791	374
	1200	67	.340	3.2	9.0	131	778	286
	1000	54	.375	2.9	7.1	99	771	222
	800	42	.467	2.8	5.8	71	766	166

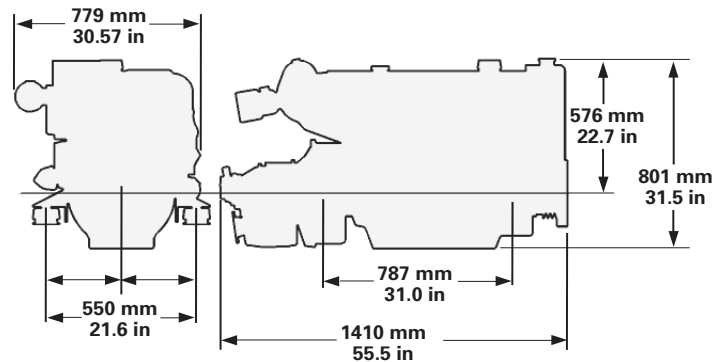
Zone Limit	2100	185	.365	9.7	34.3	374	976	889
Curve: 4	2000	175	.362	9.1	32.8	339	962	805
	1800	169	.358	8.6	32.4	286	1006	709
	1600	153	.362	7.9	28.5	251	1016	628
	1400	129	.371	6.8	22.0	208	1010	533
	1200	101	.392	5.7	15.1	159	1057	423
	1000	66	.427	4.0	9.2	109	912	268
	800	47	.486	3.2	6.8	74	842	187

Prop Demand	2100	185	.365	9.7	34.3	374	976	889
Curve: P	2000	160	.356	8.1	29.7	328	898	748
	1800	117	.348	5.8	20.7	254	778	543
	1600	82	.348	4.1	13.5	194	690	392
	1400	55	.350	2.7	8.3	148	600	286
	1200	34	.359	1.8	5.5	116	503	205
	1000	20	.406	1.2	3.7	85	411	138
	800	10	.530	0.8	2.8	60	333	88

Brake Mean Effective Pressure1318 kPa

Brake Mean Effective Pressure191 psi

DIMENSIONS



with Newage PRM 1000D Gearbox

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) and for sea water temperatures up to and including 38°C (100°F) at sea level.

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.



3056 MARINE PROPULSION

138 bkW (185 bhp)

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.

Power produced at the flywheel will be within standard tolerances up to 49°C (120°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.

CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.