

Shown with
Accessory Equipment

CATERPILLAR® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Emissions..... IMO Compliant

Bore — mm (in) 125 (4.92)

Stroke — mm (in)..... 140 (5.51)

Displacement — L (cu in)..... 10.3 (629)

Rotation (from flywheel end)... Counterclockwise

Compression Ratio..... 16:1

Capacity for Liquids — L (U.S. gal)

 Cooling System (engine only)..... 45 (12)

 Lube Oil System (refill) 28 (7.5)

Oil Change Interval — L (gal).... 9475 (2500)/fuel

Engine Weight, Net Dry

 (approx) — kg (lb) 1177 (2590)

Governor..... Electronic

DIMENSIONS



STANDARD EQUIPMENT

Air inlet system

- aftercooler
- air cleaner/fumes disposal (closed system)

Cooling system

- thermostat
- jacket water pump
- sea water pump
- integral heat exchanger/expansion tank

Exhaust system

- manifold & turbocharger, water cooled
- 152 mm (6 in) round flanged outlet

Flywheel & flywheel housing

- SAE No. 1

Fuel system

- fuel filter
- fuel transfer pump
- fuel priming pump
- flexible fuel lines

Governor

- electronic control system

Lube system

- crankcase breather
- oil cooler
- oil filter
- oil pan, center sump
- oil filler
- dipstick
- oil pump

Mounting system

- front support

Power take-offs

- hydraulic pump drive — SAE A, 11 tooth spline

Service

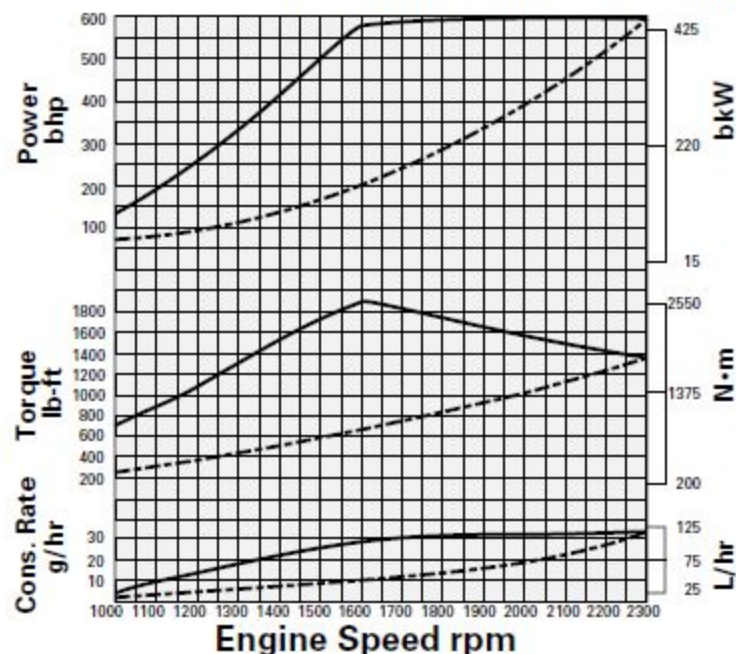
- service per top level PAs

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 70° C (158° 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.



PERFORMANCE CURVES

E Rating – 2300 rpm
448 bkW (600 bhp) 608 mhp



from the library of Barrington Diesel Club

Cubic Prop Demand Curve Data
(for displacement hulls only)

Speed rpm	Power bkW	Torque N·m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
2300	448	1858	227	121.3
2200	448	1943	223	118.7
2000	448	2137	217	115.8
1800	448	2374	218	116.2
1600	429	2561	219	111.8
1400	312	2128	218	81.2
1200	187	1487	221	49.1
1000	99	941	222	26.1

Speed rpm	Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
2300	600	1370	.374	32.0
2200	600	1433	.366	31.4
2000	600	1576	.357	30.6
1800	600	1751	.358	30.7
1600	575	1889	.359	29.5
1400	418	1570	.359	21.5
1200	251	1097	.362	13.0
1000	132	694	.366	6.9

TMI — DM3388-00

Max Power Curve Data

Power bkW	Torque N·m	Fuel Cons g/bkW-hr	Fuel Rate L/hr
448	1858	227	121.3
392	1700	214	100.0
294	1405	204	71.6
215	1138	206	52.6
151	899	213	38.2
101	688	220	26.5
64	506	223	16.9
37	351	232	10.2

Power bhp	Torque lb-ft	Fuel Cons lb/bhp-hr	Fuel Rate g/hr
600	1370	.374	32.0
525	1254	.352	26.4
395	1036	.336	18.9
288	839	.338	13.9
202	663	.350	10.1
135	507	.362	7.0
85	373	.366	4.5
49	259	.381	2.7

E RATING – Planing hull vessels such as pleasure craft, harbor patrol, harbor master, and some fishing and pilot boats.