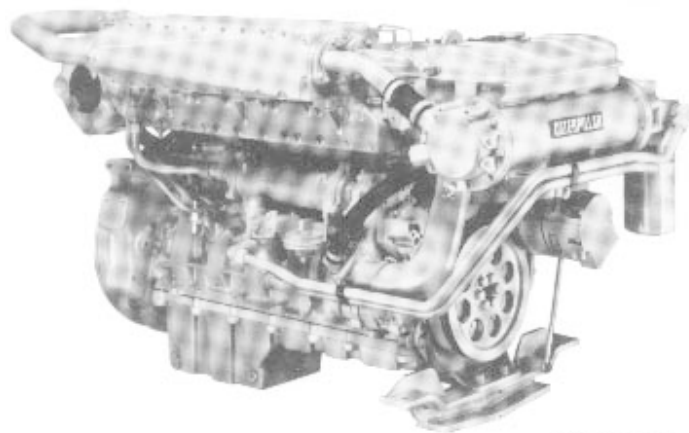


CATERPILLAR®

Marine Engine

3176B

450 hp, 525 hp, 600 hp
2300 rpm



Shown with
Accessory Equipment

SPECIFICATIONS

I-6, 4-Stroke-Cycle-Diesel

Bore—mm (in) 125 (4.9)

Stroke—mm (in) 140 (5.5)

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) 9,475 (2,500)/fuel

Engine Weight, Net Dry (approx)—kg (lb) .. 1,104 (2,430)

Governor Electronic



PERFORMANCE DATA*

Turbocharged-Aftercooled

Rating Level	E	D	C
Rated rpm	2300	2300	2300
Engine Power @ rpm**	448 kW (600 hp) 608 mhp	392 kW (525 hp) 532 mhp	336 kW (450 hp) 456 mhp

rpm	2300	1900	1400	2300	1900	1400	2300	1900	1400
kW	448	252	101	392	221	88	336	189	76
g/kW-hr	227	203	216	221	209	220	220	211	228
L/hr	121.3	60.9	26.1	103	54.6	23.2	88	47.3	20.5

bhp	600	338	135	525	296	118	450	254	101
lb/hp-hr	.373	.334	.355	.363	.344	.362	.362	.347	.375
gal/hr	32	16.1	6.9	27.2	14.4	6.1	23.2	12.5	5.4

* Represents performance along a typical fixed pitch propeller curve.

** Power rated in accordance with NMMA procedure as crankshaft power. For units equipped with Caterpillar-supplied marine gears, reduce crankshaft power by 3% for propeller shaft power.

RATING LEVEL DEFINITIONS

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

D—Planing hull vessels such as off-shore patrol boats, customs, police, and some fire and fishing boats.

C—Planing hull vessels such as ferries, fishing boats moving at higher speeds out and back (ie. lobster, crayfish, and tuna), offshore service boats, and also displacement hull yachts and short trip coastal freighters where engine load and speed are

Also used for bow and stern thrusters.

cyclical.