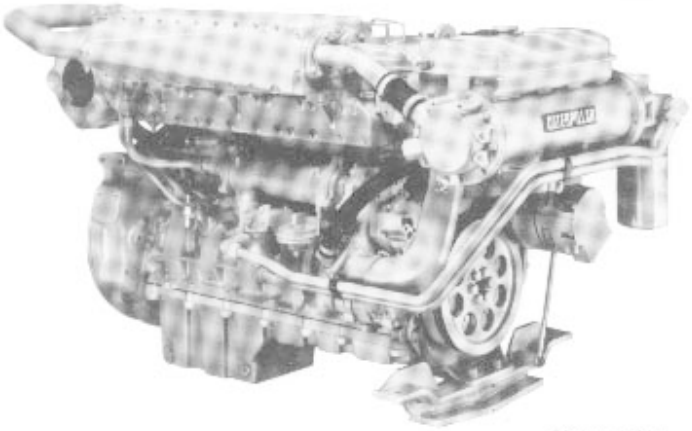
CATERPILLAR®

# 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

CATERPILLAR ENGINE FACILITIES ISO 9001 CERTIFIED

## PERFORMANCE DATA*

Turbocharged-Aftercooled

| Rating Level | E | D | C |
|---|---|---|---|
| Rated rpm | 2300 | 2300 | 2300 |
| Engine Power @ rpm** | 448 kW (600 hp)<br>608 mhp | 392 kW (525 hp)<br>532 mhp | 336 kW (450 hp)<br>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.