



# C280 Marine Propulsion Engine

NPI Information  
Specifications  
March 2006

Caterpillar Confidential: green

# C280

## Specifications

	<b>C280-6</b>	<b>C280-8</b>	<b>C280-12</b>	<b>C280-16</b>
<b>Cylinders</b>	In-line 6	In-line 8	Vee 12	Vee 16
<b>Operating Cycle</b>	4-Stroke Cycle Diesel			
<b>Injection</b>	Direct			
<b>Aspiration</b>	Turbocharged-Aftercooled			
<b>Cooling System</b>	Heat Exchanger			
<b>Control System</b>	Electronic Unit Injector (EUI)			
<b>Displacement</b>	6,773 cu in (111 L)	9,031 cu in (148 L)	13,456 cu in (222 L)	18,062 cu in (296 L)
<b>Bore</b>	11.0 in (280 mm)			
<b>Stroke</b>	11.8 in (300 mm)			

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## Specifications

### ➤ Refill Capacities

#### ➤ Coolant Capacity

➤ 6 Cylinder	900-1075 L (238-284 gal)
➤ 8 Cylinder	1030-1205 L (272-318 gal)
➤ 12 Cylinder	1400-1575 L (370-416 gal)
➤ 16 Cylinder	1660-1835 L (439-485 gal)

#### ➤ Lube Oil Capacity

➤ 6 Cylinder	697 L (184 gal)
➤ 8 Cylinder	760 L (201 gal)
➤ 12 Cylinder	910 L (240 gal)
➤ 16 Cylinder	1057 L (279 gal)

# C280

## Specifications

- Oil Change Interval
  - Lube Oil Hours
    - 6 Cylinder 1025 hrs
    - 8 Cylinder 925 hrs
    - 12 Cylinder 750 hrs
    - 16 Cylinder 600 hrs

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- Engineering Model
  - 6 Cylinder E847
  - 8 Cylinder E848
  - 12 Cylinder E849
  - 16 Cylinder E850
- Serial Number Prefix
  - 6 Cylinder LDL
  - 8 Cylinder NDT
  - 12 Cylinder RDW
  - 16 Cylinder TDX

# C280

## Specifications

- Performance Numbers
  - 6 Cylinder
    - 2320 bhp DM5805
    - 2481 bhp DM5806
    - 2548 bhp DM5807
    - 2722 bhp DM5808
  - 8 Cylinder
    - 3084 bhp DM5811
    - 3299 bhp DM5812
    - 3393 bhp DM5813
    - 3634 bhp DM5814

# C280

## Specifications

- Performance Numbers
  - 12 Cylinder
    - 4640 bhp DM5817
    - 4962 bhp DM5818
    - 5096 bhp DM5819
    - 5444 bhp DM5820
  - 16 Cylinder
    - 6169 bhp DM5823
    - 6598 bhp DM5824
    - 6785 bhp DM5825
    - 7268 bhp DM5826

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## Specifications

- Basic Engine Arrangement
  - 6 Cylinder 251-5862
  - 8 Cylinder 251-5863
  - 12 Cylinder 262-5078
  - 16 Cylinder 251-5865
  
- General Dimension Drawing
  - 6 Cylinder 277-7716
  - 8 Cylinder 277-7717
  - 12 Cylinder 277-7718
  - 16 Cylinder 277-7719