CATERPILLAR®

# D399 MARINE PROPULSION ENGINE

## RATINGS

| | SEPARATE CIRCUIT AFTERCOOLED-85°F* | | | SEPARATE CIRCUIT AFTERCOOLED-110°F** | | | JACKET WATER AFTERCOOLED | | |
|---|---|---|---|---|---|---|---|---|---|
| | rpm | hp | kW | rpm | hp | kW | rpm | hp | kW |
| **CONTINUOUS** | 1225 | 1125 | 839 | 1225 | 1090 | 813 | 1225 | 1000 | 746 |
| Shaft Power | 1225 | 1091 | 814 | 1225 | 1057 | 788 | 1225 | 970 | 723 |
| | rpm | U.S. gph | liter/h | rpm | U.S. gph | liter/h | rpm | U.S. gph | liter/h |
| Fuel Rate | 1225 | 60.7 | 229.9 | 1225 | 59.3 | 224.5 | 1225 | 55.1 | 208.6 |
| | 1100 | 43.7 | 165.5 | 1100 | 42.7 | 161.7 | 1100 | 39.9 | 151.0 |
| | 1000 | 33.6 | 127.0 | 1000 | 32.2 | 121.8 | 1000 | 30.2 | 114.4 |
| | 900 | 23.9 | 90.6 | 900 | 23.7 | 89.9 | 900 | 22.2 | 83.9 |

| | rpm | hp | kW | | rpm | hp | kW |
|---|---|---|---|---|---|---|---|
| **MEDIUM-DUTY COMMERCIAL** | 1225 | 1240 | 925 | | 1225 | 1100 | 821 |
| Shaft Power | 1225 | 1204 | 898 | | 1225 | 1068 | 796 |
| | rpm | U.S. gph | liter/h | | rpm | U.S. gph | liter/h |
| Fuel Rate | 1225 | 67.5 | 255.4 | | 1225 | 61.9 | 234.2 |
| | 1100 | 48.4 | 183.0 | | 1100 | 44.3 | 167.8 |
| | 1000 | 36.2 | 137.2 | | 1000 | 32.9 | 124.4 |
| | 900 | 26.2 | 99.8 | | 900 | 24.2 | 91.6 |

Consult your Caterpillar Dealer or the factory for appropriate rating.

| | rpm | hp | kW | | rpm | hp | kW |
|---|---|---|---|---|---|---|---|
| **LIGHT-DUTY COMMERCIAL** | 1300 | 1380 | 1029 | | 1300 | 1270 | 947 |
| Shaft Power | 1300 | 1340 | 999 | | 1300 | 1233 | 919 |
| | rpm | U.S. gph | liter/h | | rpm | U.S. gph | liter/h |
| Fuel Rate | 1300 | 78.4 | 296.8 | | 1300 | 72.2 | 273.0 |
| | 1200 | 58.3 | 220.8 | | 1200 | 54.9 | 207.9 |
| | 1100 | 44.7 | 169.1 | | 1100 | 42.1 | 159.4 |
| | 1000 | 33.6 | 127.3 | | 1000 | 31.8 | 120.3 |

Consult your Caterpillar Dealer or the factory for appropriate rating.

*85° (30°C) water to aftercooler.
**110°F (44°C) water to aftercooler.

## RATING DEFINITIONS

Continuous: For heavy-duty service where the engine is operated at rated load and speed without interruption or load cycling.

Medium-Duty Commercial: For service where engine load and speed are constant with some cycling. Full power operation is limited to four hour periods followed by one hour at continuous power levels and below. Synonymous with "maximum continuous" ratings used by marine classification societies.

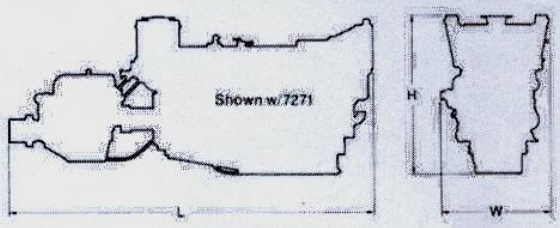
Light-Duty Commercial: For service where engine load and speed are cyclical. Full power operation is limited to one hour periods followed by one hour at continuous power levels and below.

## RATING CONDITIONS

Ratings are based on SAE J816 standard conditions of 29.38 in Hg (99.2 kPa) and 85°F (30°C). These ratings also apply at DIN 6270 standard conditions of 97.8 kPa (28.97 in Hg) and 20°C (68°F).

Shaft power represents power requirements of a typical fixed pitch propeller and 97 percent of gross engine horsepower.

Fuel rates are based on power requirements of a typical fixed pitch propeller and fuel oil having an HHV of 19,590 Btu/lb (45 570 kJ/kg) and weighing 7.076 lb/U.S. gal (848 g/liter).




| | L | H | W |
|---|---|---|---|
| D399 w/7251, 7261 | 194.4 (4937) | 89.8 (2282) | 63.1 (1602) |
| D399 w/7271 | 209.9 (5332) | 89.7 (2278) | 63.1 (1602) |

Materials and specifications are subject to change without notice.

The International System of Units (SI) is used in this publication.

LEHM 9220 (7-79)
Supersedes LEHM 1599

Printed in U.S.A.