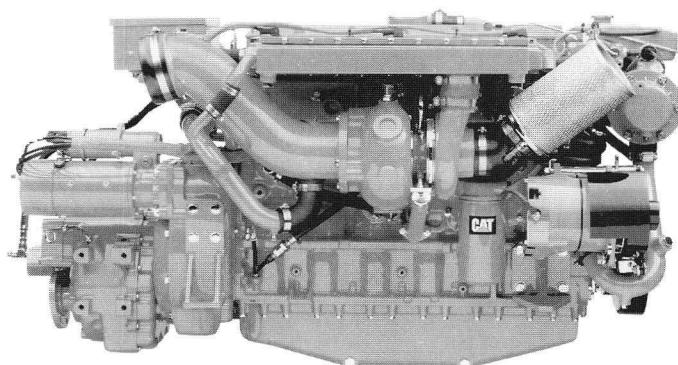


# CATERPILLAR®

## Marine Engine

# 3126

287-313 kW/385-420 bhp  
2800 rpm



Shown with  
Accessory Equipment

### STANDARD ENGINE EQUIPMENT

Air intake  
Walker Airsep  
Alternator  
belt driven, 12 volt, 51 ampere  
Cooling  
transmission oil cooler, heat exchanger, engine  
oil cooler, watercooled exhaust manifold,  
auxiliary sea water pump, expansion tank,  
thermostat  
Flywheel and housing  
SAE No. 3, rear-mounted starter  
Fuel  
filter, shutoff solenoid – energized to run,  
forward routed control cable bracket  
Governor  
mechanical  
Lubricating  
oil filter, filler, dipstick  
Service RH and LH  
service per top level PAs  
Starting  
electric, air inlet heater  
Support  
front  
Torsional vibration damper  
Tachometer drive  
magnetic pickup

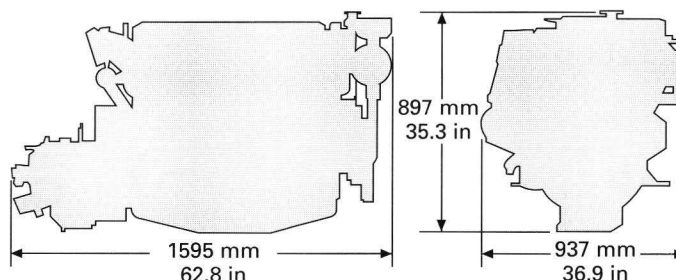
### RATING CONDITIONS

**Ratings** are based on SAE J1228/ISO8665 standard conditions of 100 kPa (29.61 in Hg) and 25° C (77° F). These ratings also apply at ISO3046/1, DIN6271, and BS5514 conditions of 100 kPa (29.61 in Hg), 27° C (81° F) and 60% relative humidity.

### SPECIFICATIONS

In-Line 6, 4-Stroke-Cycle-Diesel  
Bore—mm (in) ..... 110 (4.33)  
Stroke—mm (in) ..... 127 (5.0)  
Displacement—L (cu in) ..... 7.2 (439)  
Rotation (from flywheel end) ... Counterclockwise  
Compression Ratio ..... 15.0:1  
Capacity for Liquids — L (U.S. gal)  
Cooling System ..... 28.0 (7.4)  
Lube Oil System (refill) ..... 25.0 (6.6)  
Oil Change Interval ..... 250 hrs  
Engine Weight, Net Dry  
(approx)—kg (lb) ..... 722 (1590)

### DIMENSIONS



*This Caterpillar marine engine can be operated with air inlet temperatures up to 50° C (122° F) measured at the air cleaner inlet, and fuel temperatures up to 52° C (125° 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.*

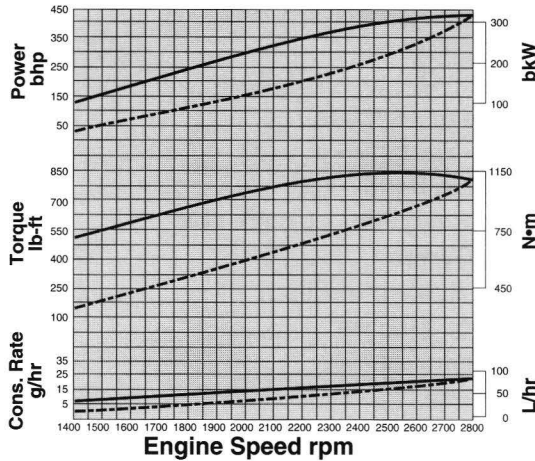


**Fuel rates** are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18 390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal).

Additional ratings may be available for specific customer requirements. Consult your Caterpillar representative for details.

### PERFORMANCE CURVES

#### E Rating – 2800 rpm 313 bkW (420 bhp) 426 mhp



#### Max Power Curve Data

| Speed rpm | Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|-----------|------------|--------------------|----------------|
|-----------|-----------|------------|--------------------|----------------|

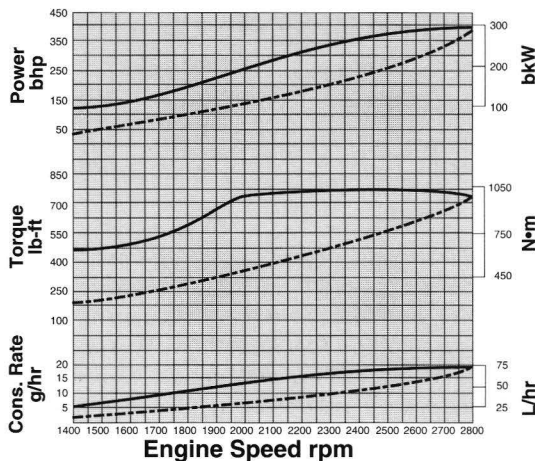
| Speed rpm | Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|-----------|------------|--------------------|----------------|
| 2800      | 313       | 1067       | 221                | 82.6           |
| 2600      | 304       | 1117       | 212                | 76.7           |
| 2400      | 287       | 1143       | 208                | 71.3           |
| 2200      | 260       | 1130       | 207                | 64.3           |
| 2000      | 200       | 953        | 208                | 49.4           |
| 1800      | 163       | 865        | 210                | 40.7           |
| 1600      | 130       | 775        | 213                | 33.0           |
| 1400      | 99        | 677        | 217                | 25.7           |

#### Prop Demand Curve Data

| Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|------------|--------------------|----------------|
| 313       | 1067       | 221                | 82.6           |
| 251       | 920        | 212                | 63.5           |
| 197       | 784        | 210                | 49.3           |
| 152       | 659        | 209                | 37.8           |
| 114       | 545        | 209                | 28.5           |
| 83        | 441        | 213                | 21.1           |
| 58        | 349        | 220                | 15.3           |
| 39        | 267        | 233                | 10.9           |

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

#### E Rating – 2800 rpm 287 bkW (385 bhp) 390 mhp



#### Max Power Curve Data

| Speed rpm | Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|-----------|------------|--------------------|----------------|
|-----------|-----------|------------|--------------------|----------------|

| Speed rpm | Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|-----------|------------|--------------------|----------------|
| 2800      | 287       | 979        | 215                | 73.7           |
| 2600      | 286       | 1051       | 209                | 71.1           |
| 2400      | 261       | 1040       | 204                | 63.6           |
| 2200      | 238       | 1034       | 202                | 57.4           |
| 2000      | 217       | 1034       | 206                | 53.1           |
| 1800      | 143       | 759        | 212                | 36.1           |
| 1600      | 111       | 663        | 218                | 28.8           |
| 1400      | 93        | 634        | 222                | 24.6           |

#### Prop Demand Curve Data

| Power bkW | Torque N-m | Fuel Cons g/bkW-hr | Fuel Rate L/hr |
|-----------|------------|--------------------|----------------|
| 287       | 979        | 215                | 73.7           |
| 230       | 844        | 207                | 56.7           |
| 181       | 719        | 206                | 44.4           |
| 139       | 604        | 208                | 34.5           |
| 105       | 499        | 213                | 26.6           |
| 76        | 405        | 221                | 20.1           |
| 54        | 320        | 231                | 14.7           |
| 36        | 245        | 246                | 10.5           |

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

Prop Demand ----- 3.0 Exponent

- Engine Performance Parameters: Power +/- 3%; Specific Fuel Consumption +/- 3%; Fuel Rate +/- 5%.