**RV Diesel Engine with ACERT® Technology**

C9

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>400 hp @ 2100 rpm</td>
<td></td>
</tr>
<tr>
<td>1100 lb-ft @ 1400 rpm Peak Torque</td>
<td></td>
</tr>
</tbody>
</table>

**CATERPILLAR® ENGINE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-line 6-Cylinder, 4-Stroke-Cycle Diesel</td>
<td></td>
</tr>
<tr>
<td>Bore — in (mm)</td>
<td>4.41 (112)</td>
</tr>
<tr>
<td>Stroke — in (mm)</td>
<td>5.87 (149)</td>
</tr>
<tr>
<td>Displacement — cu in (L)</td>
<td>537 (8.8)</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>17.0:1</td>
</tr>
<tr>
<td>Rotation (from flywheel end)</td>
<td>Counterclockwise</td>
</tr>
<tr>
<td>Cooling System1 — gal (L)</td>
<td>4.8 (18)</td>
</tr>
<tr>
<td>Lube Oil System (refill) — gal (L)</td>
<td>8.5 (32)</td>
</tr>
<tr>
<td>Weight, Net Dry (approx) — lb (kg)</td>
<td>1500 (680)</td>
</tr>
</tbody>
</table>

1 Engine only. Capacity will vary with radiator size and use of cab heater.

**STANDARD EQUIPMENT**

- Air inlet manifold heater
- Cooling — belt-driven water pump, oil cooler
- Crankcase breather
- Diesel Oxidation Catalyst (required)
- Electronic Control Module (ECM)
- Electronic Data Link, SAE/ATA, SAE/J1939
- Fuel — spin-on secondary filter, transfer pump
- Governor — full-range, electronically controlled
- HEUI™ Fuel System
- Lifting eyes
- Lubrication — gear-driven pump, front or rear sump pan, full flow spin-on filter, oil filler, oil level gauge (dipstick)
- SAE No. 1 flywheel housing
- Turbocharger
- Vibration damper

**ACCESSORY EQUIPMENT**

- Air compressor — 15.7 cfm with drive-through capability
- Air conditioner compressor mounting
- Air inlet elbow
- Automatic transmission adaptation
- Auxiliary brake compatible (exhaust)
- Fan drive mounting bracket
- Flywheel
- Front engine support
- Front PTO adapter
- Fuel priming pump
- Hydraulic pump drive, SAE A
- Jacket water heater
- Rear PTO (RPTO)
- Starting motor — 12V or 24V
- Turbocharger compressor outlet elbow

**DIMENSIONS**

- 42.1 in (1070 mm)
- 49.0 in (1245 mm)
- 35.2 in (894.08 mm)
PERFORMANCE DATA

Operating Range (rpm) ............. 1400-2100
Governed Speed — rpm ............... 2100
Advertised hp (kW) .................. 400 (298)
Max hp (kW) .......................... 400 (298)
Peak Torque — lb-ft (N·m) .......... 1100 (1492)
Peak Torque — rpm ................... 1400
Torque rise (%) ..................... 10
Altitude Capability — ft (m) ....... 10,000 (3048)
ROUTINE MAINTENANCE RECOMMENDATIONS

Daily
• Walk-around inspection
• Check oil level
• Check coolant level
• Check air cleaner service indicator
• Drain water separator if water present

Preventive Maintenance (PM Level 1)
• Change oil & filter
• Scheduled Oil Sampling (S•O•S™) analysis
• Drain water from fuel tanks and replace fuel filter
• Test coolant (supplemental coolant additive)
• Inspect radiator and Air-to-Air Aftercooler
• Clean crankcase breather (every other oil change)
• Check belts, hoses, and clamps
• Lube fan drive bearing
• Inspect, clean batteries
• Replace air compressor filter (if equipped)
• Inspect cylinder head ground stud

PM Level 1 Recommended Change Intervals

<table>
<thead>
<tr>
<th>Oil Pan</th>
<th>Miles/Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>32L (34 quarts)</td>
<td>20,000/1</td>
</tr>
</tbody>
</table>

Refer to the operation & maintenance manual for complete details.

CUSTOMER SERVICE INFORMATION

Customer Call Center (Toll Free) 877-777-3126
Parts & Service Directory LEGT3466

RATING DEFINITIONS AND CONDITIONS

Performance is based on SAE J1995 standard conditions of 29.61 in. Hg (100 kPa) and 77°F (25°C).

The curves shown are for a standard engine without fan, but equipped with air compressor and fuel, lubricating oil, and jacket water pumps.

C9 RV DIESEL ENGINE — 400 hp

ELECTRONIC FEATURES

- Real time clock with date and time stamping of critical events
- Electronic self-diagnostics
- Compatible with Caterpillar Electronic Technician (ET)
- Cold weather startup strategy and electronic idle control functions
- ECM storage of operational, maintenance, diagnostic codes and diagnostic data
- J1939 compatible
- Customer selectable, re-programmable operational parameters:
  - 2-speed fast idle capabilities
  - Adjustable low idle rpm
  - Automated Transmission compatibility
  - Cooling fan control
  - Cruise control with exclusive Soft Cruise
  - Customer password protection
  - Engine Monitoring System — warning, derate, or shutdown
  - Enhanced theft deterrent and secure idle (Cat Messenger or Pocket Tec required)
  - Exhaust brake operational modes
  - Fleet Information Software capability
  - Idle shutdown timer & override
  - Maintenance monitor [miles (km) or hours]
  - OEM parameter lockout
  - Progressive shifting and gear-down protection
  - Selectable AT/MT/HT shift points for automatic transmission
  - Vehicle speed [mph (km/h)] limiting and protection
- Programmable Power Take-Off (PTO) functions:
  - Adjustable maximum engine rpm speed
  - Adjustable minimum engine rpm speed
  - Adjustable ramp rate up or down between PTO set speed(s)
  - Adjustable rpm “bump” intervals
  - Adjustable speed control [mph (km/h)] of vehicle while in PTO mode
  - Limit engine torque to driven equipment
  - Multi-speed PTO set speed capability
  - Selectable PTO configuration for “in cab” or station of remote operation