CATERPILLAR®

RV Diesel Engine with ACERT® Technology

400 hp @ 2100 rpm 1100 lb-ft @ 1400 rpm Peak Torque



CATERPILLAR® ENGINE SPECIFICATIONS

| In-line 6-Cylinder, 4-Stroke-Cycle Diesel |
|---|
| Bore — in (mm) 4.41 (112 |
| Stroke — in (mm) 5.87 (149 |
| Displacement — cu in (L) 537 (8.8 |
| Aspiration Turbocharged |
| Compression Ratio |
| Rotation (from flywheel end) Counterclockwise |
| Cooling System ¹ — gal (L) 4.8 (18 |
| Lube Oil System (refill) — gal (L) 8.5 (32 |
| Weight, Net Dry (approx) — lb (kg) |
| including flywheel 1500 (680 |
| |

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

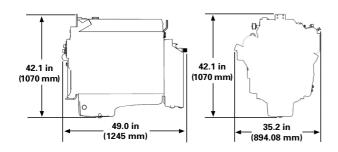
Jacket water heater

Rear PTO (RPTO)

Starting motor — 12V or 24V

Turbocharger compressor outlet elbow

DIMENSIONS

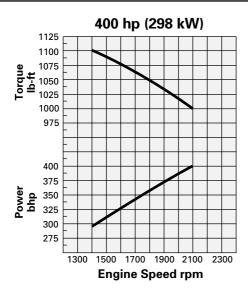




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PERFORMANCE CURVES



PERFORMANCE DATA

| Operating Range (rpm) | 1400-2100 |
|---|-------------|
| Governed Speed — rpm | 2100 |
| Advertised hp (kW) | |
| Max hp (kW) | 400 (298) |
| Pook Torque Ib ft /Nl-m) | 1100 (1402) |
| Peak Torque — lb-ft (N·m) | 1100 (1432) |
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| Peak Torque — rpm | 1400 |

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CATERPILLAR®

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•SSM) 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

| Oil Pan | Miles/Years |
|-----------------|-------------|
| 32L (34 quarts) | 20,000/1 |

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