Emissions
- Designed to meet U.S. EPA Tier 4 Final emissions requirements.
- On-engine NOx reduction system with optimized piston, ring, liner, and fuel system configuration to reduce NOx while minimizing in-cylinder sooting
- Aftertreatment features diesel oxidation catalyst
- Meets Tier 4 Final emissions requirements four years early, achieving environmental benefits earlier than required.

Engine Design
- Proven reliability and durability of engine and aftertreatment
- Broad operating speed range
- High power density
- PTO drive options provide flexible access to auxiliary power for pumps and other needs

Low Total Cost of Ownership
- Optimized fuel consumption
- Maintenance-free aftertreatment

Advanced Digital Engine Management
ADEM A4 control system providing integrated ignition, speed governing, protection, and controls. ADEM A4 has improved: user interface, display system, shutdown controls, and system diagnostics.

Custom Packaging
For any petroleum application, trust Caterpillar to meet your exact needs with a factory custom package. Cat® engines, generators, enclosures, controls, radiators, transmissions, aftertreatment solutions — anything your project requires — can be custom designed and matched to create a one-of-a-kind solution. Custom packages are globally supported and are covered by a one-year warranty after startup.

Transmissions
- Caterpillar has a full line of engine-transmission packages that can be fully integrated with your axle, hydraulics, and operator interface.
- C32 ACERT™ optimized Cat transmission match: TH48-E70

Testing
Every engine is full-load tested to ensure proper engine performance.

Product Support Offered Through Global Cat Dealer Network
- More than 2,200 dealer outlets
- Caterpillar factory-trained dealer technicians service every aspect of your petroleum engine
- Caterpillar parts and labor warranty
Preventive maintenance agreements available for repair-before-failure options
S•O•S™ program matches your oil and coolant samples against Caterpillar set standards to determine:
- Internal engine component condition
- Presence of unwanted fluids
- Presence of combustion by-products
- Site-specific oil change interval

Over 80 Years of Engine Manufacturing Experience
Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable products.
- Cast engine blocks, heads, cylinder liners, and flywheel housings
- Machine critical components
- Assemble complete engine

Web Site
For all your petroleum power requirements, visit www.catoilandgas.cat.com.
STANDARD ENGINE EQUIPMENT

Air Inlet System
Twin side-mounted turbochargers, ATAAC

Control System
Automatic altitude compensation; power compensation for fuel temperature; electronic diagnostics and fault logging; engine monitoring and protection system (speeds, temperature, pressure); J1939 Broadcast (diagnostic, engine status and control); ADEM A4 electronic control

Cooling System
Thermostats and housing; jacket water pump, gear-driven, centrifugal, RH

Exhaust System
Exhaust dry manifold, 127 mm (5 in) slip fit connection, diesel oxidation catalyst

Fuel System
Mechanical Electronic Unit Injection (MEUI) system; primary, secondary, and tertiary fuel filter; electronic fuel priming pump-integrated with primary fuel filter base; fuel transfer pump

Lube System
Crankcase fumes filtration system, RH mounted; oil cooler — RH; oil filler — RH; oil level gauge — RH; shallow rear sump oil pan — 250-hour

DIMENSIONS

(1) Length — 1905 mm (75 in)  (2) Width — 1600 mm (63 in)  (3) Height — 1549.4 mm (61 in)

Note: Final dimensions dependent on selected options
PERFORMANCE DATA — PRELIMINARY

Turbocharged — 1800 rpm

**C Rating**

![Rated Speed Graph](image)

<table>
<thead>
<tr>
<th>Engine Speed rpm</th>
<th>Torque lb-ft</th>
<th>Power bkW</th>
<th>Peak Power bhp</th>
</tr>
</thead>
<tbody>
<tr>
<td>700</td>
<td>134</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>900</td>
<td>2500</td>
<td>300</td>
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<td>3500</td>
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<tr>
<td>1700</td>
<td>1206</td>
<td>1100</td>
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<td>1844</td>
<td>1300</td>
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<tr>
<td>2100</td>
<td>3319</td>
<td>1500</td>
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</tbody>
</table>

**Peak Power**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Speed rpm</th>
<th>Peak Power bkW</th>
<th>Peak Power bhp</th>
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</thead>
<tbody>
<tr>
<td>C</td>
<td>1800</td>
<td>839</td>
<td>1125</td>
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</table>

**Peak Torque**

<table>
<thead>
<tr>
<th>Rating</th>
<th>Speed rpm</th>
<th>Peak Torque Nm</th>
<th>Peak Torque lb-ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>1200</td>
<td>5499</td>
<td>4056</td>
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</tbody>
</table>

**RATING DEFINITIONS AND CONDITIONS**

**C Rating (Intermittent)** service where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

**Engine Performance Diesel Engines — 7 liter and higher** are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42.780 kJ/kg (18,390 btu/lb) when used at 29°C (84.2°F) with a density of 838.9 g/L.
C32 ACERT™
Petroleum Engine
Tier 4 Final
839 bkW/1125 bhp @ 1800 rpm

CLEAN EMISSIONS MODULE AFTERTREATMENT CONFIGURATION

Images shown may not reflect actual aftertreatment.

AFTERTREATMENT DIMENSIONS*
Approximate Size and Weight
(1) Length — 1120 mm (44 in)
(2) Width — 400 mm (15.7 in)
(3) Height — 440 mm (17.3 in)
Weight — 66 kg (145 lbs)
*Dimensions and image are for individual canister. Two canisters are required. They can be shipped loose for customizable mounting options.

ENGINE-MOUNTED AFTERTREATMENT
C32 ACERT has the option for engine-mounted aftertreatment.
Approximate Size of Fully Packaged Engine
Length — 1905 mm (75 in)
Width — 1600 mm (63 in)
Height — 2007 mm (79 in)

AFTERTREATMENT FEATURES
Mounting: Remote installation options provide OEM flexibility for many applications
Each canister features a single diesel oxidation catalyst. Two canisters required for compliance.

STANDARD EMISSIONS CONTROL EQUIPMENT
DOC: Diesel Oxidation Catalyst
NRS: NOx Reduction System