The Cat C9.3B combines a new high pressure common rail fuel system and advanced aftertreatment technology to produce 340 kW of power. With exceptional power density, the C9.3B allows for platform downsizing while maintaining reliability and durability. Our focus is locked on maximizing performance with simpler engine systems and reduced installation complexity through modular, flexible designs.

### Specifications

#### Power Rating

<table>
<thead>
<tr>
<th></th>
<th>Maximum Power</th>
<th>340 kW</th>
<th>456 HP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Torque</td>
<td>2088 Nm @ 1400 rpm</td>
<td>1540 lb-ft @ 1400 rpm</td>
<td></td>
</tr>
<tr>
<td>Rated Speed</td>
<td></td>
<td>1800-2200 rpm</td>
<td></td>
</tr>
<tr>
<td>Minimum Power</td>
<td>250 kW</td>
<td>335 HP</td>
<td></td>
</tr>
</tbody>
</table>

#### Emission Standards

- Emissions: U.S. EPA Tier 4 Final, EU Stage V

#### General

- Engine Configuration: In-Line 6
- Bore: 115 mm | 4.5 in
- Stroke: 149 mm | 5.9 in
- Displacement: 9.3 l | 567.5 in³
- Compression Ratio: 17.0:1
- Aspiration: Turbocharged-Aftercooled (TA)
- Combustion System: Direct Injection
- Rotation from Flywheel End: Counterclockwise
- Aftertreatment: DOC+DPF+SCR

#### Engine Dimensions - Approximate

<table>
<thead>
<tr>
<th></th>
<th>Length</th>
<th>1125 mm</th>
<th>44.3 in</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width</td>
<td>791 mm</td>
<td>31.1 in</td>
</tr>
<tr>
<td></td>
<td>Height</td>
<td>1068 mm</td>
<td>42 in</td>
</tr>
<tr>
<td>Weight - Net Dry - Basic Operating Engine Without Optional Attachments</td>
<td>865 kg</td>
<td>1907 lb</td>
<td></td>
</tr>
</tbody>
</table>
Benefits and Features

Fuel Efficiency
Fluid consumption optimized to match operating cycles of a wide range of equipment and applications while maintaining low operating costs.

Installation
Exceptional power density enables you to use a smaller displacement engine than previously, and optimize the installation in your application. Fully configurable engine and compact aftertreatment minimize package size. Ideal for equipment with narrow engine compartments. Aftertreatment installation flexibility to meet all applications - including engine and remote mount options. Industrial Power Unit (IPU) available from factory to avoid significant design, validation and manufacturing costs.

Low Cost Maintenance

- Worldwide service delivers ease of maintenance and simplifies the servicing routine. If applicable, minimum 5000-hour diesel particulate filter (DPF) ash service interval enables low-cost maintenance.
- Capable of optimal oil change intervals of up to 500-hours, depending on rating, application, operating conditions, and maintenance practices.
- Engine B10 life up to 10000 hours for Tier 4 Final, Stage V. The S-O-S program is available from your Cat dealer to determine oil change intervals and provide optimal performance.

Quality
Every Cat engine is manufactured to stringent standards in order to assure customer satisfaction.

Reliable, Quiet and Durable Power
World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life.

World-class Product Support Offered Through Global Cat Dealer Network

- Scheduled maintenance, including SOS sample
- Customer Support Agreements (CSA)
- Caterpillar Extended Service Coverage (ESC)
- Superior dealer service network
- Extended dealer service network through the Cat Industrial Service Distributor (ISD) program

Tier 4 Final, Stage V Aftertreatment Features

Regeneration. Maximum uptime with transparent aftertreatment regeneration, eliminating the need for operator interaction. Service. Service: Minimum 5000 hour service interval for DPF / PETU filters. PETU DEF capacity up to 93.7 liters (24.7 U.S. gallons)

Enhanced Electronics
- The C9.3B is equipped for the future with the latest technology from a single on engine ECM.
- 2 wire Ethernet connection allows for simpler, faster installation and allows for remote service and software flash.
- 12 V and 24 V available.

Standard Equipment
Air Inlet System
• Turbocharged
• Air-to-Air Aftercooled
• Mid-mount turbocharged system with front and rear exhaust configurations

Control System
• Electronic control system
• Over-foam wiring harness
• Automatic altitude compensation
• Power compensated for fuel temperature
• Configurable software features
• Engine monitoring system SAE J1939 broadcast and control
• Integrated Electronic Control Unit (ECU)
• Remote fan control

Cooling System
• Vertical or RH thermostat outlet
• Centrifugal water pump
• Guidance on cooling system design available through your dealer to ensure equipment reliability

Flywheels and Flywheel Housing
• Available SAE 1 power take-off with optional SAE A, SAE B, SAE C power take-off drives. Engine power can also be taken from the front of the engine with optional attachments. (Tier 4 Final, Proposed Stage V)

Fuel System
• Electronic high pressure common rail
• Primary fuel filter
• Secondary and tertiary fuel filters
• Fuel transfer pump
• Electronic fuel priming

Lube System
• Open crankcase ventilation system
• Oil cooler
• Oil filler
• Lube oil filter
• Oil dipstick
• Gear driven oil pump
• Choice of front, rear or center sumps
• Open crankcase ventilation system with fumes disposal (optional OCV filter system)

Power Take Off (PTO)
• SAE A, SAE B or SAE C power take off (PTO) drives. Engine power can also be taken from the front of the engine on some applications.

General
• Paint: Caterpillar yellow, with optional colors available at request
• Vibration damper
• Lifting eyes

**Tier 4 Final, Proposed Stage V Aftertreatment**

• Clean Emissions Module (CEM) consisting of Diesel Particulate Filter (DPF), Diesel Oxidation Catalyst (DOC) and high-efficiency Selective Catalytic Reduction (SCR)
• Pump Electronic Control Unit (PETU)
• Available in 12V or 24V systems

The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, EUI, S+O+S, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.
### Rating Type: IND-D RATING

Diezal Engines — up to 7.1 liter All rating conditions are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (.295 in Hg), and 25°C (77°F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

Diesel Engines — greater than 7.1 liter All rating conditions 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.

<table>
<thead>
<tr>
<th>Metric</th>
<th>English</th>
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<tbody>
<tr>
<td>Power Rating</td>
<td>340 kW</td>
</tr>
<tr>
<td>Number of Cylinders</td>
<td>6</td>
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<tr>
<td>Bore</td>
<td>115 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>149 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>9.3 L</td>
</tr>
<tr>
<td>Compression Ratio</td>
<td>17.0 : 1</td>
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</tbody>
</table>
### Engine Speed and Performance

<table>
<thead>
<tr>
<th>Engine Speed rpm</th>
<th>Engine Power bkW</th>
<th>Engine Power bhp</th>
<th>Torque N*m</th>
<th>Torque lb-ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>2200</td>
<td>326</td>
<td>437</td>
<td>1415</td>
<td>1044</td>
</tr>
<tr>
<td>2100</td>
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<tr>
<td>2000</td>
<td>340</td>
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<td>1623</td>
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<td>1900</td>
<td>340</td>
<td>456</td>
<td>1709</td>
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<tr>
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<td>340</td>
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<td>1500</td>
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