Operator Comfort

• Improved ingress/egress with a totally redesigned cab with flip up armrest.
• Keep your operators informed about machine conditions and operation with VIMS™ 3G machine monitoring system.
• Safety and visibility enhanced with optional rearview camera.
• Preferred temperature settings maintained with automatic climate control.
• Operator productivity enhanced with new membrane switch panels, keyed ignition and E-H parking brake switch.
• Improved comfort with low operator sound levels.
• Improved spectator sound levels and optional low sound packages.

Serviceability

• Easier access and in a controlled environment, electronics bay is located inside the cab.
• Focused on safety with ground level or platform access to most major components.
• Ground level: emergency shutdown, battery disconnect, and jump start.
• Quick visual inspection and minimize fluid contamination with sight gauges for coolant, transmission, and hydraulic oil.
• Electronic air inlet restriction indicator.
• Designed for ease of service and inspection.
  – Hydraulic oil cooler, fuel cooler and condenser grouped together
  – Centralized grease points
• Operators and technicians can resolve any problems before failure using Vital Information Management System VIMS.

Productivity and Efficiency

• Powerful, responsive, fuel-efficient Cat® 7.1 engine with ACERT™ Technology.
• Reliable performance, long life, low emissions.
• High productivity and excellent fuel efficiency.
• Two engine options available that meet U.S. EPA Tier 4 Final/ EU Stage IV emission standards or U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards.
• For the Tier 4 Final/Stage IV option, the Cat Clean Emissions Module contains a Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System, utilizing SCR technology.
• Regeneration is completely automatic and does not interrupt the machine’s work cycle.
• Experience maximum responsiveness and control with Steering and Transmission Integrated Control System (STIC™).
• Conserve more fuel with the automatic engine and electrical system shutdown.
• Achieve greater momentum on grades and fuel savings by carrying that momentum through the shift points with the all new Advanced Productivity Electronic Control System (APECS) transmission controls.
• Operators experience less fatigue with throttle lock to maintain engine speed.

Cat CONNECT Technology

• COMPACT technology combines advanced compaction measurement, in-cab guidance and reporting capabilities to help you consistently meet compaction targets fast, uniformly, and in fewer passes – saving on fuel and the cost of unnecessary rework.
  – Optional 3D mapping system available
• LINK technology (standard) provides access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes through the online VisionLink® interface.
• DETECT technology, like the rear vision camera, help keep people and equipment safe by enhancing operator awareness of the work area.
### Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat C1.1 ACERT: configured for two emissions options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Power (SAE J1349)</td>
<td>185 kW 248 hp</td>
</tr>
<tr>
<td>Rated Power (Net ISO 9249)</td>
<td>185 kW 248 hp</td>
</tr>
<tr>
<td>Gross Power (SAE J1995)</td>
<td>212 kW 284 hp</td>
</tr>
<tr>
<td>Gross Power (ISO 14396)</td>
<td>204 kW 274 hp</td>
</tr>
<tr>
<td>Maximum Net Torque @ 1,400 rpm</td>
<td>1219 N·m 899 lbf-ft</td>
</tr>
<tr>
<td>Tier 4 Final/Stage IV</td>
<td></td>
</tr>
<tr>
<td>Tier 3/Stage IIIA equivalent</td>
<td></td>
</tr>
<tr>
<td>Rated Power (SAE J1349)</td>
<td>186 kW 249 hp</td>
</tr>
<tr>
<td>Rated Power (Net ISO 9249)</td>
<td>186 kW 249 hp</td>
</tr>
<tr>
<td>Gross Power (SAE J1995)</td>
<td>213 kW 286 hp</td>
</tr>
<tr>
<td>Gross Power (ISO 14396)</td>
<td>205 kW 275 hp</td>
</tr>
<tr>
<td>Maximum Net Torque @ 1,400 rpm</td>
<td>1016 N·m 749 lbf-ft</td>
</tr>
</tbody>
</table>

### Transmission

<table>
<thead>
<tr>
<th></th>
<th>Forward</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>First</td>
<td>6.7 km/h</td>
<td>4.2 mph</td>
</tr>
<tr>
<td>Second</td>
<td>12 km/h</td>
<td>7.5 mph</td>
</tr>
<tr>
<td>Third</td>
<td>21.2 km/h</td>
<td>13.2 mph</td>
</tr>
</tbody>
</table>

### Hydraulic System

- Main Relief Pressure: 22 000 kPa (3,190 psi)
- Lift Cylinder, Double-acting: 101.6 mm x 4 in x 24.7 in
- Bore and Stroke: 627 mm
- Tilt Cylinder, Double-acting: 101.6 mm x 4 in x 6.6 in
- Bore and Stroke: 167 mm
- Steering System – Circuit: Closed Center Load Sensing
- Vehicle Articulation: Angle 84°

### Axles

- Front: Planetary – Fixed
- Rear: Planetary – Oscillating
- Oscillation Angle: ±10°

### Wheels and Tips

<table>
<thead>
<tr>
<th>Outside Diameter</th>
<th>Drum Diameter</th>
<th>Drum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>1412 mm</td>
<td>1029 mm</td>
<td>991 mm</td>
</tr>
</tbody>
</table>

### Service Refill Capacities

- Cooling System – Tier 4 Final/Stage IV: 81 L (21.4 gal)
- Cooling System – Tier 3/Stage IIIA equivalent: 73 L (19.3 gal)
- Engine Crankcase: 20 L (5.3 gal)
- Transmission: 56 L (14.8 gal)
- Fuel Tank: 500 L (132.1 gal)
- Diesel Exhaust Fluid Tank (Tier 4 Final/Stage IV only): 16 L (4.2 gal)
- Differentials and Final Drives – Front: 65 L (17.2 gal)
- Differentials and Final Drives – Rear: 65 L (17.2 gal)
- Hydraulic Tank Only: 75 L (19.8 gal)

### Maximum Operating Weight

<table>
<thead>
<tr>
<th>Tier 4 Final/Stage IV</th>
<th>Tier 3/Stage IIIA equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 386 kg</td>
<td>22 108 kg</td>
</tr>
</tbody>
</table>

### Dimensions

- Height to Top of Beacon: 3946 mm (12 ft 11.3 in)
- Height to Top of Exhaust Pipe: 3344 mm (10 ft 11.7 in)
- Height to Top of Hood: 2566 mm (8 ft 5.0 in)
- Ground Clearance to Bumper: 685 mm (2 ft 2.2 in)
- Center Line of Rear Axle to Bumper: 1990 mm (6 ft 6.3 in)
- Hitch to Center Line of Front Axle: 1675 mm (5 ft 6.0 in)
- Wheelbase: 3350 mm (10 ft 11.9 in)
- Length with Blade on Ground: 7157 mm (23 ft 5.8 in)
- Ground Clearance: 375 mm (1 ft 2.8 in)
- Width over Wheels: 3243 mm (10 ft 7.7 in)
- Height to Top of Cab Roof: 3650 mm (11 ft 11.7 in)
- Turning Radius – Inside of Push Arms: 2520 mm (8 ft 3.2 in)
- Width Over End Bits: 3761 mm (12.34 ft)
- Maximum Depth of Cut: 222 mm (0.73 ft)
- Maximum Lift Above Ground: 802 mm (2.63 ft)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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