980L
Wheel Loader
2017

Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Engine Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat® C13 ACERT™</td>
<td>303 kW 412 hp (metric)</td>
</tr>
<tr>
<td>Maximum Power – ISO 14396</td>
<td>303 kW 412 hp (metric)</td>
</tr>
<tr>
<td>Maximum Net Power – ISO 9249</td>
<td>278 kW 378 hp (metric)</td>
</tr>
</tbody>
</table>

Buckets

Bucket Capacities: 4.2-12.2 m³

Weight

Operating Weight: 30 090 kg*

*For 5.4 m³ general purpose bucket with BOCE.
The 980L Wheel Loader applies proven technologies systematically and strategically to meet your high expectations for reliability, productivity, fuel efficiency, and long service life.

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Reliability
• Cat C13 ACERT engine offers a combination of proven electronic, fuel and air systems and meets Brazil MAR-1 emission standards.
• Utilizing rigorous component design and machine validation processes results in unmatched reliability, durability and high uptime.

Durability
• Heavy-duty powershift transmission and axles handle extreme applications.
• Improved hydraulic hose routing reduces potential hose wear.
• Full flow hydraulic filtration system with additional loop filtration improves hydraulic system robustness and component life.

Productivity
• Increased engine power improves machine performance and response.
• Lock-up clutch torque converter, combined with lock-to-lock shifting, delivers smooth shifts, fast acceleration and speed on grade.
• High capacity torque converter results in greater digging efficiency.
• Easy-to-load Performance Series Buckets feature a wider mouth and curved side plates that improve material retention (fill factor) and decrease cycle times.

Fuel Efficiency
• Up to 25% lower fuel consumption than H Series.*
• Power dense ACERT engine burns less fuel by providing power and torque when needed.

*Actual results may vary based on factors such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.

Ease of Operation
• Best-in-class operator environment provides unmatched comfort, visibility, and efficiency.
• Intuitive, ergonomic controls keep operators focused on their work.

Safety
• Excellent cab access with wide door and stair-like steps.
• Floor to ceiling windshield, large mirrors with integrated spot mirrors and rear vision camera provide industry leading all-around visibility.

Serviceability
• One-piece tilting hood with side and rear doors; hydraulic and electrical service centers make access fast and easy.
• Convenient access to fuel fill, oil fill, filters and daily maintenance points means less servicing time required.
Caterpillar Designed Components

- Utilizing rigorous design and machine validation processes have delivered unmatched reliability, durability and high uptime for generations.
- Components used to build Cat wheel loaders are designed and manufactured to Caterpillar quality standards to ensure maximum performance even in extreme operating conditions.
- Heavy duty components reduce the risk of premature wear resulting in increased uptime and reduce operating costs over the lifetime of the machine.

Equipment Monitoring

- Monitoring product health is key to maintaining reliability of any equipment.
- Cat Connect technologies (Product Link™, VisionLink®) take the guesswork out of equipment management.
- Many programs offered by your Cat dealer make tracking your machine health quick and easy.

Renowned Cat Dealer Support

- Cat dealers provide the best support when it comes to servicing your machine, increasing your uptime on the job site.
- Preventive maintenance programs like Scheduled Oil Sampling (S-O-S™) analysis or comprehensive Customer Support Agreements help reduce lifetime maintenance costs.
- Best-in-class parts availability maximizes uptime.
**Durable**

Better designed to meet your needs.

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**Power Train**
- Cat C13 engine with ACERT technology maintains engine performance, efficiency and durability.
- Rugged, planetary powershift transmission and axles handle extreme applications effectively resulting in reliable performance and durable life.
- Front axle is rigidly mounted to the frame in order to withstand internal torque loads and still maintain support for the wheel loader.
- Rear axle can oscillate to ±13 degrees helping to ensure all four wheels stay on the ground providing stability even in the roughest terrain, for excellent stability and traction.

**Hydraulic System**
- Improved hydraulic hose routing reduces potential hose wear.
- Full flow hydraulic filtration system with additional loop filtration improves hydraulic system robustness and component life.

**Linkage, Buckets and Frames**
- Proven Z-bar linkage with Performance Series Buckets offers excellent penetration into the pile, high breakout forces, good roll back angles and faster dig times resulting in improved tire life, superior fuel efficiency and exceptional production capabilities.
- Robotically welded two-piece structural frame design provides strong and rigid structures that absorb all the forces associated to penetration, loading and twisting.
- The L Series articulating hitch system joins the front and rear frames providing increased bearing force capacity.
Productive
Work smart and move more.

**Engine**
- Increased engine power in the 980L by approximately 5% (compared to H series) improves machine performance and response.

**Transmission**
- Heavy-duty powershift transmission includes a lock up clutch torque converter that matches engine power and hydraulics to maximize machine performance and fuel efficiency.

**Performance Series Buckets**
- Easy-to-load Performance Series Buckets feature wider mouth, longer floor and curved side plates that improve material retention (fill factor) and decrease cycle times.

**Dealer Support**
- Your Cat dealer can help with operator training to help boost your productivity and profits.

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**Fine-tuned Technologies for the Right Applications**
- Lock-up clutch torque converter, combined with lock-to-lock shifting, delivers smooth shifts, fast acceleration and speed on grade.
- High capacity torque converter results in greater digging efficiency.
- Z-bar linkage provides high breakout force at ground level in bucket applications.
- Optional aggregate packages are available for specific loose aggregate rehandling applications, such as truck loading, hopper charging, stockpiling, and load and carry.*
- Optional high lift linkage offers increased hinge pin height to load more easily.
- Optional limited slip differentials improve performance in the pile and poor underfoot conditions with no operator intervention required.

*Please consult your Cat dealer to ensure proper machine configuration selection in conformance to Caterpillar payload policy.
**Engine and Emissions**
- Cat C13 ACERT engine is designed for maximum fuel efficiency and increased power density while meeting Brazil MAR-1 emission standards.
- Engine features innovative Cat electronics, fuel injection process, and air-management systems, reducing fuel consumption.

**Efficient Systems and Components**
- Innovative systems intelligently lower average working engine speeds and reduce overall system heat loads resulting in significantly improved performance and fuel efficiency.

**Advanced Systems with Innovative Integration**
- Deep system integration of engine power train, hydraulic system and cooling system result in lower fuel consumption on average compared to H Series.

- Up to 25% lower fuel consumption than H Series.*
- Power dense ACERT engine burns less fuel by providing power and torque when needed.
- Performance Series Buckets feature a longer floor that easily digs through the pile resulting in lower fuel consumption.
- Productive Economy Mode provides maximum fuel savings with minimal productivity impact.
- Load sensing hydraulics result in proportional flow for implement and steering on demand.
- On-Demand Fan improves fuel efficiency, lower noise levels and reduced radiator plugging.
- Engine Idle Management System (EIMS) maximizes fuel efficiency by reducing engine rpm.
- Engine Idle Shutdown saves fuel and reduces hour accumulation on your machine.

*Actual results may vary based on factors such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.
Easy to Operate

Operator Environment
• Best-in-class operator environment features four post Roll Over Protection System (ROPS) cab providing unmatched comfort, visibility, and efficiency.
• Seat-mounted implement controls, low effort steering wheel and streamlined control panel provide operators with precise control of work tool and machine with maximum comfort and efficiency.
• Viscous cab mounts connect cab to frame of machine, decreasing noise and vibration resulting in a sustainable work environment and well-rested efficient, productive operator.
• Load-sensing implement hydraulic system, allowing comfortable combined movement to improve operation efficiency.
• Optional ride control system with dual accumulators provides excellent ride quality and lowers cab vibrations.

Safety
• Excellent cab access with wide door and stair-like steps.
• Floor to ceiling windshield, large mirrors with integrated spot mirrors and rear vision camera provide industry leading all-around visibility.
• Robust, repositioned grab bars provide safe access to machine platforms.
• Integrated rear vision camera enhances visibility behind machine helping operators work safely and productively.
Serviceable
Easy to maintain. Easy to service.

Engine Access
- One-piece tilting hood with side and rear doors makes access fast and easy.
- Best-in-class service access to engine, oil levels and coolant sight gauge means less servicing time required.

Service Centers
- Electrical and hydraulic service centers provide grouped access enhancing safety and convenience while reducing service time.
- Convenient access to fuel fill and daily maintenance points means safer and faster servicing time.

Parking Brake
- External caliper disc parking brakes are easily accessible for inspection and service.

Cooling System
- Cooling system is readily accessible for clean out and maintenance.
- Hydraulic and A/C cooler cores swing out providing easy access to both sides for cleaning.
- Access panel on left side of cooling package swings down to provide access to back side of engine coolant and Air-to-Air After Cooler (ATAAC).
- Optional variable pitch fan can automatically purge cooler cores by periodically reversing airflow when needed.
Integrated Technologies
Monitor, Manage, and Enhance Job Site Operations.

Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you’ll get more information and insight into your equipment and operations than ever before.

Cat Connect services are also available from your dealership including:

- **Equipment Management** – increase uptime and reduce operating costs.
- **Productivity** – monitor production and manage job site efficiency.
- **Safety** – enhance job site awareness to keep your people and equipment safe.

Featured Cat Connect technologies include:

**LINK Technologies**

LINK technologies wirelessly connect you to your equipment giving you access to essential information you need to know to run your business. Link data can give you valuable insight into how your machine or fleet is performing so you can make timely, fact-based decisions that can boost job site efficiency and productivity.

**Product Link/VisionLink**

- Product Link is deeply integrated into your machine to take the guesswork out of equipment management.
- Easy access to timely information like machine location, hours, fuel usage, idle time and event codes via the online VisionLink user interface can help you effectively manage your fleet and lower operating cost.

Consult your local dealer on the services available.
PAYLOAD Technologies
PAYLOAD technologies provide accurate weighing of materials being loaded and hauled. Payload data is displayed for loader operators in real-time to improve productivity, reduce overloading, and recorded to track material movement by shift.

Cat Production Measurement 2.0 (Optional)
• Brings payload weighing to the cab, enabling you to weigh loads “on-the-go” during loading operations.
• Integrated Cat multi-function touchscreen display with graphical user interface is easy to understand and adds no clutter to the cab.
• Easy calibration procedure requires no special tools and reduces operational complexity.
• Low Lift Weigh and Tip-off features enable faster loading of trucks to their maximum capacity.
• VisionLink common back-office interface provides you a quick summary of loader operations, including payload productivity and efficiency.
• Optional Advanced Productivity subscription provides comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.

DETECT Technologies
DETECT technologies enhance operator awareness of the environment around working equipment and provide alerts to help keep people and assets safe.

Rear Vision Camera
• Integrated into standard display, enhances visibility behind the machine helping you work confidently.
• Optional second display can be added to provide a dedicated rear view of the job site.

Rear Object Detection (Optional)
• Integrated into touchscreen display, the radar system warns you of an object in critical zone while going in reverse.
• Increased awareness of the working environment enhances site safety.
**Versatile**
Do more jobs with one machine.

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**Heavy Duty Quarry Rock Buckets**
- Bank or face loading material where high impact/high abrasion is encountered.
- Thicker base edge, liner package and addition wear plates.

**Slag Buckets**
- Increased material thickness in critical structural components to provide maximum durability for hot or cold slag handling.

**Waste Handling Buckets**
- Move large volumes of low-density waste in transfer stations, landfills and recycling yards for maximum production when loading conveyors, trucks or hoppers.

**Woodchip Buckets**
- Optimized for moving large volumes of wood chips in forestry and millyard settings.
- Flat floor and straight edge designed to scoop the bucket full and help heap the load high.

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**Performance Series Buckets**

**Load Easy, Fuel Efficient, Carry More**
- Buckets utilize a system based approach to balance bucket shape with machine’s linkage, weight, lift and tilt capacities.
- Reduced dig times and better material retention results in significant productivity and fuel efficiency improvements.

**Lower Operating Costs**
- Buckets feature longer floor that easily digs through pile and provides excellent visibility for operators to see when bucket is full.
- Less time digging in the pile results in lower fuel consumption and improved tire life.
- Unique spill guard protects cab and linkage components from material overflow.

**Higher Productivity**
- Buckets achieve higher fill factors – ranging from 100% to 115% depending on the machine application and material type.
- Buckets feature curved side profile to maximize material retention.

**Options to Fit the Job**
- Performance Series buckets are available in General Purpose and Material Handling styles.
Owning Costs
Proven best investment.

Cat Product Link
- Cat Product Link allows remote monitoring of equipment to improve overall fleet management effectiveness.
- Product Link is deeply integrated into machine systems; information such as events, diagnostic codes, hours, fuel, idle time and other detailed information are transmitted to a secure web based application, VisionLink.
- VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.

S·O·S Services
- Helps manage component life and decrease machine downtime, increasing productivity and efficiency.
- Regular fluid sampling can help track what is going on inside your machine. Wear related problems are predictable and proactively repairable.
- Maintenance can be done to accommodate your schedule, resulting in increased uptime and flexibility in maintenance repairs before failure.

Cat Autolube System
The optional, fully integrated Cat Autolube system provides full system monitoring and diagnostic test visibility by being integrated into the machine, display and VisionLink. Easy access to the refill pump and grease zerks means simple, fast servicing.

Parts Availability
- Caterpillar provides an unsurpassed level of personalized service to help you work more cost effectively and efficiently.
- By utilizing a worldwide parts network Cat dealers help minimize machine downtime and save money by fast delivery of replacement parts.

Resale Value
- Caterpillar is not only known for machines that are better built, but provides product and dealer support to maintain the reliability and durability of your machine.
Operating Costs
Save time and money by working smart.

Most Fuel Efficient Machines in Industry
• Data from customer machines show Cat wheel loaders are the most fuel efficient machines in the industry.

Engine, Hydraulics and Transmission
• Deep system integration results in more productivity, lower fuel consumption, without interrupting machine performance – making it seamless to you and your operators.

Lock-up-Clutch Torque Converter and Shift Strategy
• Reduced torque interruption increases driveline efficiency, conserving fuel; auto transmission mode keeps engine rpm low, reducing fuel consumption while delivering optimal machine performance.

Performance Series Buckets
• Performance Series buckets deliver faster fill times and better material retention, ultimately reducing cycle times while improving productivity and fuel efficiency.

External Caliper Disc Parking Brake
• External caliper disc parking brake does not have the inefficiencies of enclosed wet parking brakes due to brake discs running in oil nor is there any oil to change reducing fuel and maintenance costs.
### Engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat C13 ACERT</td>
</tr>
<tr>
<td>Maximum Power (1,800 rpm)</td>
<td>ISO 14396: 303 kW / 412 hp (metric)</td>
</tr>
<tr>
<td>Maximum Net Power (1,800 rpm)</td>
<td>ISO 9249: 278 kW / 378 hp (metric)</td>
</tr>
<tr>
<td>Peak Gross Torque (1,300 rpm)</td>
<td>ISO 14396: 2172 N·m</td>
</tr>
<tr>
<td>Maximum Net Torque (1,000 rpm)</td>
<td>ISO 9249: 2040 N·m</td>
</tr>
<tr>
<td>Bore</td>
<td>130 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>157 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>12.5 L</td>
</tr>
</tbody>
</table>

- Cat engine with ACERT Technology meets Brazil MAR-1 emission standards.
- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

### Buckets

| Bucket Capacities | 4.2-12.2 m³ |

### Weight

| Operating Weight | 30,090 kg |

- Weight based on a machine configuration with Michelin 29.5R25 XLDD1 L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open differential axles (front/rear), secondary steering, sound suppression, and a 5.4 m³ general purpose bucket with BOCE.

### Operating Specifications

<table>
<thead>
<tr>
<th>Static Tipping Load – Full 40° Turn</th>
<th>19,565 kg</th>
</tr>
</thead>
<tbody>
<tr>
<td>With Tire Deflection</td>
<td>20,796 kg</td>
</tr>
<tr>
<td>No Tire Deflection</td>
<td>224 kN</td>
</tr>
</tbody>
</table>

- Full compliance to ISO 143971-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

### Transmission

<table>
<thead>
<tr>
<th>Speed</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward 1</td>
<td>6.9 km/h</td>
</tr>
<tr>
<td>Forward 2</td>
<td>13.3 km/h</td>
</tr>
<tr>
<td>Forward 3</td>
<td>23.5 km/h</td>
</tr>
<tr>
<td>Forward 4</td>
<td>39.5 km/h</td>
</tr>
<tr>
<td>Reverse 1</td>
<td>7.8 km/h</td>
</tr>
<tr>
<td>Reverse 2</td>
<td>15.2 km/h</td>
</tr>
<tr>
<td>Reverse 3</td>
<td>26.9 km/h</td>
</tr>
<tr>
<td>Reverse 4</td>
<td>39.5 km/h</td>
</tr>
</tbody>
</table>

- Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 933 mm roll radius.

### Hydraulic System

<table>
<thead>
<tr>
<th>Implement Pump Type</th>
<th>Variable Displacement Piston</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implement System</td>
<td>Maximum Pump Output (2,250 rpm): 449 L/min</td>
</tr>
<tr>
<td></td>
<td>Maximum Operating Pressure: 34 300 kPa</td>
</tr>
<tr>
<td>Optional 3rd Function Maximum Flow</td>
<td>240 L/min</td>
</tr>
<tr>
<td>Optional 3rd Function Maximum Pressure</td>
<td>21 780 kPa</td>
</tr>
</tbody>
</table>

### Brakes

| Brakes | Brakes meet ISO 3450:2011 standards |

### Axles

<table>
<thead>
<tr>
<th>Front</th>
<th>Fixed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear</td>
<td>Oscillating ±13 degrees</td>
</tr>
</tbody>
</table>

### Maximum Single-Wheel Rise and Fall | 549 mm |

### Cab

## Sound

The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.

With Cooling Fan Speed at Maximum Value:

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operator Sound Pressure Level (ISO 6396:2008)</td>
<td>75 dB(A)</td>
</tr>
<tr>
<td>Exterior Sound Power Level (ISO 6395:2008)</td>
<td>112 dB(A)</td>
</tr>
<tr>
<td>Exterior Sound Pressure Level (SAE J88:2013)</td>
<td>78 dB(A)*</td>
</tr>
</tbody>
</table>

*Distance of 15 m, moving forward in second gear ratio.

## Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>426 L</td>
</tr>
<tr>
<td>Cooling System</td>
<td>45 L</td>
</tr>
<tr>
<td>Crankcase</td>
<td>37 L</td>
</tr>
<tr>
<td>Transmission</td>
<td>77 L</td>
</tr>
<tr>
<td>Differentials and Final Drives – Front</td>
<td>84 L</td>
</tr>
<tr>
<td>Differentials and Final Drives – Rear</td>
<td>84 L</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>153 L</td>
</tr>
</tbody>
</table>
# 980L Wheel Loader Specifications

## Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th>Standard Lift</th>
<th>High Lift</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Height to Axle Centerline</td>
<td>892 mm</td>
<td>892 mm</td>
</tr>
<tr>
<td>2</td>
<td>Height to Top of Hood</td>
<td>3110 mm</td>
<td>3110 mm</td>
</tr>
<tr>
<td>3</td>
<td>Height to Top of Exhaust Pipe</td>
<td>3746 mm</td>
<td>3746 mm</td>
</tr>
<tr>
<td>4</td>
<td>Height to Top of ROPS</td>
<td>3813 mm</td>
<td>3813 mm</td>
</tr>
<tr>
<td>5</td>
<td>Height to Top of Product Link Antenna</td>
<td>3891 mm</td>
<td>3891 mm</td>
</tr>
<tr>
<td>6</td>
<td>Height to Top of Warning Beacon</td>
<td>4112 mm</td>
<td>4112 mm</td>
</tr>
<tr>
<td>7</td>
<td>Ground Clearance</td>
<td>453 mm</td>
<td>453 mm</td>
</tr>
<tr>
<td>8</td>
<td>Center Line of Rear Axle to Edge of Counterweight</td>
<td>2608 mm</td>
<td>2608 mm</td>
</tr>
<tr>
<td>9</td>
<td>Center Line of Rear Axle to Hitch</td>
<td>1900 mm</td>
<td>1900 mm</td>
</tr>
<tr>
<td>10</td>
<td>Wheelbase</td>
<td>3800 mm</td>
<td>3800 mm</td>
</tr>
<tr>
<td>11</td>
<td>Overall Length (without bucket)</td>
<td>8214 mm</td>
<td>8302 mm</td>
</tr>
<tr>
<td>12</td>
<td>Shipping Length (with bucket level on ground)*†</td>
<td>9627 mm</td>
<td>9715 mm</td>
</tr>
<tr>
<td>13</td>
<td>Hinge Pin Height at Carry Height</td>
<td>621 mm</td>
<td>678 mm</td>
</tr>
<tr>
<td>14</td>
<td>Hinge Pin Height at Maximum Lift</td>
<td>4539 mm</td>
<td>4760 mm</td>
</tr>
<tr>
<td>15</td>
<td>Lift Arm Clearance at Maximum Lift</td>
<td>3795 mm</td>
<td>4010 mm</td>
</tr>
<tr>
<td>16</td>
<td>Dump Clearance at Maximum Lift and 45° Discharge*†</td>
<td>3273 mm</td>
<td>3493 mm</td>
</tr>
<tr>
<td>17</td>
<td>Reach at Maximum Lift and 45° Discharge*†</td>
<td>1481 mm</td>
<td>1484 mm</td>
</tr>
<tr>
<td>18</td>
<td>Dump Angle at Maximum Lift and Dump (on stops)*</td>
<td>52 degrees</td>
<td>55 degrees</td>
</tr>
<tr>
<td>19</td>
<td>Rack Back at Maximum Lift*</td>
<td>61 degrees</td>
<td>61 degrees</td>
</tr>
<tr>
<td>20</td>
<td>Rack Back at Carry Height*</td>
<td>48 degrees</td>
<td>48 degrees</td>
</tr>
<tr>
<td>21</td>
<td>Rack Back at Ground*</td>
<td>40 degrees</td>
<td>39 degrees</td>
</tr>
<tr>
<td>22</td>
<td>Clearance Circle (dia) to Counterweight</td>
<td>13 683 mm</td>
<td>13 683 mm</td>
</tr>
<tr>
<td>23</td>
<td>Clearance Circle (dia) to Outside of Tires</td>
<td>14 806 mm</td>
<td>14 806 mm</td>
</tr>
<tr>
<td>24</td>
<td>Clearance Circle (dia) to Inside of Tires</td>
<td>8252 mm</td>
<td>8252 mm</td>
</tr>
<tr>
<td>25</td>
<td>Width Over Tires – Maximum (unloaded)</td>
<td>3265 mm</td>
<td>3265 mm</td>
</tr>
<tr>
<td></td>
<td>Width Over Tires – Maximum (loaded)</td>
<td>3296 mm</td>
<td>3296 mm</td>
</tr>
<tr>
<td>26</td>
<td>Tread Width</td>
<td>2440 mm</td>
<td>2440 mm</td>
</tr>
</tbody>
</table>

*With 5.4 m³ general purpose pin on bucket with BOCE (see Operating Specifications for other Buckets).
†Dimensions are listed in Operating Specifications charts.

All height and tire related dimensions are with Michelin 29.5R25 XLDD1 L4 radial tires (see Tire Option Chart for other tires). “Width Over Tires” dimensions are over the bulge and include growth.
## 980L Wheel Loader Specifications

### Tire Option Chart (Compared to Michelin XLDD1 L4)

<table>
<thead>
<tr>
<th>Tire Brand</th>
<th>Michelin</th>
<th>Michelin</th>
<th>Michelin</th>
<th>Bridgestone</th>
<th>Bridgestone</th>
<th>Bridgestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire Size</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
</tr>
<tr>
<td>Tread Type</td>
<td>L-3</td>
<td>L-5</td>
<td>L-5</td>
<td>L-3</td>
<td>L-4</td>
<td>L-5</td>
</tr>
<tr>
<td>Tread Pattern</td>
<td>XHA2</td>
<td>XLDD2</td>
<td>XMINE D2</td>
<td>VMT</td>
<td>VSNT</td>
<td>VSDL</td>
</tr>
<tr>
<td>Width over Tires – Maximum (unloaded)*</td>
<td>3273 mm</td>
<td>3269 mm</td>
<td>3281 mm</td>
<td>3257 mm</td>
<td>3243 mm</td>
<td>3252 mm</td>
</tr>
<tr>
<td>Width over Tires – Maximum (loaded)*</td>
<td>3293 mm</td>
<td>3297 mm</td>
<td>3295 mm</td>
<td>3284 mm</td>
<td>3265 mm</td>
<td>3274 mm</td>
</tr>
<tr>
<td>Change in Vertical Dimensions (average of front and rear)</td>
<td>–33 mm</td>
<td>–6 mm</td>
<td>9 mm</td>
<td>–21 mm</td>
<td>4 mm</td>
<td>23 mm</td>
</tr>
<tr>
<td>Change in Horizontal Reach</td>
<td>23 mm</td>
<td>3 mm</td>
<td>3 mm</td>
<td>21 mm</td>
<td>1 mm</td>
<td>–10 mm</td>
</tr>
<tr>
<td>Change in Clearance Circle to Outside of Tires</td>
<td>–4 mm</td>
<td>1 mm</td>
<td>–2 mm</td>
<td>–13 mm</td>
<td>–32 mm</td>
<td>–23 mm</td>
</tr>
<tr>
<td>Change in Clearance Circle to Inside of Tires</td>
<td>4 mm</td>
<td>–1 mm</td>
<td>2 mm</td>
<td>13 mm</td>
<td>32 mm</td>
<td>23 mm</td>
</tr>
<tr>
<td>Change in Operating Weight (without Ballast)</td>
<td>–544 kg</td>
<td>364 kg</td>
<td>688 kg</td>
<td>–356 kg</td>
<td>156 kg</td>
<td>864 kg</td>
</tr>
</tbody>
</table>

*Width over tire bulge and includes tire growth.

### Changes Specific to the 980L

<table>
<thead>
<tr>
<th>Tire Brand</th>
<th>Michelin</th>
<th>Michelin</th>
<th>Michelin</th>
<th>Bridgestone</th>
<th>Bridgestone</th>
<th>Bridgestone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire Size</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
<td>29.5R25</td>
</tr>
<tr>
<td>Tread Type</td>
<td>L-3</td>
<td>L-5</td>
<td>L-5</td>
<td>L-3</td>
<td>L-4</td>
<td>L-5</td>
</tr>
<tr>
<td>Tread Pattern</td>
<td>XHA2</td>
<td>XLDD2</td>
<td>XMINE D2</td>
<td>VMT</td>
<td>VSNT</td>
<td>VSDL</td>
</tr>
<tr>
<td>Change in Static Tipping Load – Straight</td>
<td>–411 kg</td>
<td>275 kg</td>
<td>519 kg</td>
<td>–269 kg</td>
<td>118 kg</td>
<td>652 kg</td>
</tr>
<tr>
<td>Change in Static Tipping Load – Articulated</td>
<td>–357 kg</td>
<td>239 kg</td>
<td>452 kg</td>
<td>–234 kg</td>
<td>102 kg</td>
<td>568 kg</td>
</tr>
</tbody>
</table>
### Bucket Fill Factors and Selection Chart

The bucket size must be chosen based on the density of the material and on the expected fill factor. The Cat Performance Series Buckets with longer floor, larger bucket opening, increased repository angle, rounded side boards and integrated spill guard, demonstrate fill factors significantly higher than previous generation or non Cat buckets. The actual volume handled by the machine is thus often larger than the rated capacity.

<table>
<thead>
<tr>
<th>Loose Material</th>
<th>Material Density</th>
<th>Fill Factor (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Earth/Clay</td>
<td>1500-1700 kg/m³</td>
<td>115</td>
</tr>
<tr>
<td>Sand and Gravel</td>
<td>1500-1700 kg/m³</td>
<td>115</td>
</tr>
<tr>
<td>Aggregate:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25-76 mm</td>
<td>1600-1700 kg/m³</td>
<td>110</td>
</tr>
<tr>
<td>19 mm and smaller</td>
<td>1800 kg/m³</td>
<td>105</td>
</tr>
<tr>
<td>Rock:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>76 mm and larger</td>
<td>1600 kg/m³</td>
<td>100</td>
</tr>
</tbody>
</table>

*As a % of ISO rated capacity.

**Note:** Fill Factors achieved will also depend on whether the product is washed or not washed.

---

| Material Density | 700 | 800 | 900 | 1000 | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 2000 | 2100 | 2200 | 2300 | 2400 | 2500 |
|------------------|-----|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **General Purpose** |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Coal             | 8.20 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Material Density |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **Material Handling** |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Rock             | 4.40 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  | 4.50 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  | 5.40 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **High Linkage** |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Coal             | 8.20 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| **Aggregate Handler** |     |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| Rock             | 4.40 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  | 4.50 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|                  | 5.40 m³ |     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

**Note:** All buckets are showing Bolt-on Edges except the Rock Bucket is showing Tips.
### 980L Wheel Loader Specifications

#### Operating Specifications with Buckets

<table>
<thead>
<tr>
<th>Edge Type</th>
<th>Standard Linkage</th>
<th>High Lift Linkage Change**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket Type</td>
<td>Bolt-On Cutting Edges</td>
<td>Teeth and Segments</td>
</tr>
<tr>
<td>Capacity – Rated</td>
<td>m³</td>
<td>5.4</td>
</tr>
<tr>
<td>Capacity – 110%</td>
<td>m³</td>
<td>5.9</td>
</tr>
<tr>
<td>Width</td>
<td>mm</td>
<td>3447</td>
</tr>
<tr>
<td>16† Dump Clearance at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>3273</td>
</tr>
<tr>
<td>17† Reach at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>1481</td>
</tr>
<tr>
<td>Reach at Level Lift Arm and Bucket Level</td>
<td>mm</td>
<td>2965</td>
</tr>
<tr>
<td>A† Digging Depth</td>
<td>mm</td>
<td>103</td>
</tr>
<tr>
<td>12† Overall Length</td>
<td>mm</td>
<td>9493</td>
</tr>
<tr>
<td>B† Overall Height with Bucket at Maximum Lift</td>
<td>mm</td>
<td>6421</td>
</tr>
<tr>
<td>Loader Clearance Circle Radius with Bucket at Carry Position</td>
<td>mm</td>
<td>7612</td>
</tr>
<tr>
<td>Static Tipping Load, Straight (With Tire Deflection)*</td>
<td>kg</td>
<td>22 639</td>
</tr>
<tr>
<td>Static Tipping Load, Straight (No Tire Deflection)*</td>
<td>kg</td>
<td>24 023</td>
</tr>
<tr>
<td>Static Tipping Load, Articulated (With Tire Deflection)*</td>
<td>kg</td>
<td>19 565</td>
</tr>
<tr>
<td>Static Tipping Load, Articulated (No Tire Deflection)*</td>
<td>kg</td>
<td>20 796</td>
</tr>
<tr>
<td>Breakout Force</td>
<td>kN</td>
<td>226</td>
</tr>
<tr>
<td>Operating Weight*</td>
<td>kg</td>
<td>30 090</td>
</tr>
</tbody>
</table>

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open/open axles (front/rear), power train guard, secondary steering and sound suppression.

(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

**Maximum values.

†Illustration shown with Dimension charts.
## Operating Specifications with Buckets

<table>
<thead>
<tr>
<th>Edge Type</th>
<th>Bolt-On Cutting Edges</th>
<th>Teeth and Segments</th>
<th>Teeth and Segments + Side Protector</th>
<th>Teeth + Side Protector</th>
<th>Bolt-On Cutting Edges</th>
<th>High Lift Linkage Change**</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity – Rated</td>
<td>m³</td>
<td>5.7</td>
<td>5.7</td>
<td>4.4</td>
<td>4.5</td>
<td>5.4</td>
</tr>
<tr>
<td>Capacity – 110%</td>
<td>m³</td>
<td>6.3</td>
<td>6.3</td>
<td>4.8</td>
<td>5.0</td>
<td>5.9</td>
</tr>
<tr>
<td>Width</td>
<td>mm</td>
<td>3447</td>
<td>3535</td>
<td>3504</td>
<td>3504</td>
<td>3504</td>
</tr>
<tr>
<td>16† Dump Clearance at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>3105</td>
<td>2928</td>
<td>3101</td>
<td>3051</td>
<td>2890</td>
</tr>
<tr>
<td>17† Reach at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>1444</td>
<td>1566</td>
<td>1769</td>
<td>1713</td>
<td>1904</td>
</tr>
<tr>
<td>Reach at Level Lift Arm and Bucket Level</td>
<td>mm</td>
<td>3074</td>
<td>3286</td>
<td>3285</td>
<td>3284</td>
<td>3533</td>
</tr>
<tr>
<td>A† Digging Depth</td>
<td>mm</td>
<td>103</td>
<td>103</td>
<td>106</td>
<td>106</td>
<td>71</td>
</tr>
<tr>
<td>12† Overall Length</td>
<td>mm</td>
<td>9602</td>
<td>9843</td>
<td>9828</td>
<td>9827</td>
<td>10 076</td>
</tr>
<tr>
<td>B† Overall Height with Bucket at Maximum Lift</td>
<td>mm</td>
<td>6242</td>
<td>6242</td>
<td>6184</td>
<td>6204</td>
<td>6378</td>
</tr>
<tr>
<td>Loader Clearance Circle Radius with Bucket at Carry Position</td>
<td>mm</td>
<td>7642</td>
<td>7756</td>
<td>7735</td>
<td>7734</td>
<td>7807</td>
</tr>
<tr>
<td>Static Tipping Load, Straight (With Tire Deflection)*</td>
<td>kg</td>
<td>21 892</td>
<td>21 708</td>
<td>23 033</td>
<td>22 740</td>
<td>22 412</td>
</tr>
<tr>
<td>Static Tipping Load, Straight (No Tire Deflection)*</td>
<td>kg</td>
<td>23 234</td>
<td>23 048</td>
<td>24 431</td>
<td>24 137</td>
<td>23 824</td>
</tr>
<tr>
<td>Static Tipping Load, Articulated (With Tire Deflection)*</td>
<td>kg</td>
<td>18 888</td>
<td>18 704</td>
<td>19 875</td>
<td>19 589</td>
<td>19 299</td>
</tr>
<tr>
<td>Static Tipping Load, Articulated (No Tire Deflection)*</td>
<td>kg</td>
<td>20 084</td>
<td>19 897</td>
<td>21 117</td>
<td>20 830</td>
<td>20 557</td>
</tr>
<tr>
<td>Breakout Force</td>
<td>kN</td>
<td>210</td>
<td>207</td>
<td>212</td>
<td>210</td>
<td>193</td>
</tr>
<tr>
<td>Operating Weight*</td>
<td>kg</td>
<td>30 298</td>
<td>30 436</td>
<td>30 687</td>
<td>30 978</td>
<td>31 024</td>
</tr>
</tbody>
</table>

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLDD1 L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open/open axles (front/rear), power train guard, secondary steering and sound suppression.

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(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

**Maximum values.

†Illustration shown with Dimension charts.
## 980L Wheel Loader Specifications

### Operating Specifications with Buckets – Aggregate Handler

<table>
<thead>
<tr>
<th>Package</th>
<th>Bucket Type</th>
<th>Aggregate Handler</th>
<th>General Purpose – Pin On</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Edge Type</td>
<td>Bolt-On Cutting Edges</td>
<td>Bolt-On Cutting Edges</td>
</tr>
<tr>
<td></td>
<td>Capacity – Rated</td>
<td>m³</td>
<td>5.7</td>
</tr>
<tr>
<td></td>
<td>Capacity – 110%</td>
<td>m³</td>
<td>6.3</td>
</tr>
<tr>
<td></td>
<td>Width</td>
<td>mm</td>
<td>3447</td>
</tr>
<tr>
<td>16†</td>
<td>Dump Clearance at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>3204</td>
</tr>
<tr>
<td>17†</td>
<td>Reach at Maximum Lift and 45° Discharge</td>
<td>mm</td>
<td>1529</td>
</tr>
<tr>
<td></td>
<td>Reach at Level Lift Arm and Bucket Level</td>
<td>mm</td>
<td>3049</td>
</tr>
<tr>
<td>A†</td>
<td>Digging Depth</td>
<td>mm</td>
<td>103</td>
</tr>
<tr>
<td>12†</td>
<td>Overall Length</td>
<td>mm</td>
<td>9638</td>
</tr>
<tr>
<td>B†</td>
<td>Overall Height with Bucket at Maximum Lift</td>
<td>mm</td>
<td>6243</td>
</tr>
<tr>
<td></td>
<td>Loader Clearance Circle Radius with Bucket at Carry Position</td>
<td>mm</td>
<td>7635</td>
</tr>
<tr>
<td></td>
<td>Static Tipping Load, Straight (With Tire Deflection)*</td>
<td>kg</td>
<td>23 972</td>
</tr>
<tr>
<td></td>
<td>Static Tipping Load, Straight (No Tire Deflection)*</td>
<td>kg</td>
<td>25 481</td>
</tr>
<tr>
<td></td>
<td>Static Tipping Load, Articulated (With Tire Deflection)*</td>
<td>kg</td>
<td>20 630</td>
</tr>
<tr>
<td></td>
<td>Static Tipping Load, Articulated (No Tire Deflection)*</td>
<td>kg</td>
<td>21 997</td>
</tr>
<tr>
<td></td>
<td>Breakout Force</td>
<td>kN</td>
<td>213</td>
</tr>
<tr>
<td></td>
<td>Operating Weight*</td>
<td>kg</td>
<td>30 822</td>
</tr>
</tbody>
</table>

*Static tipping loads and operating weights shown are based on a machine configuration with Michelin 29.5R25 XLD01 L4 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link, open/open axles (front/rear), power train guard, secondary steering and sound suppression.

(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

**Maximum values.

†Illustration shown with Dimension charts.
Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

OPERATOR ENVIRONMENT
- Cab, pressurized and sound suppressed (ROPS/FOPS)
- Viscous mounts
- Rear vision camera within multi-function 18 cm color LCD touch-screen display (capability for displaying machine status, setting and health parameters)
- EH controls, SAL (single axis lever) lift and tilt function
- Steering, steering wheel
- Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)
- Air conditioner, heater, and defroster
- EH parking brake
- Beverage holders (2) with storage compartment for cell phone/MP3 player
- Bucket/work tool function lockout
- Coat hook
- Cab air filter
- Ergonomic cab access ladders and handrails
- Horn, electric
- Light, two dome (cab)
- Mirrors, rearview external with integrated spot mirrors
- Post mounted membrane 16 switch keypad
- Two receptacles, 12V
- Seat, Cat Comfort (cloth) air suspension
- Seat belt, 51 mm retractable
- Sun visor, front
- Wet-arm wipers/washers front and rear, intermittent front wiper
- Window, sliding (left and right sides)

COMPUTERIZED MONITORING SYSTEM
- With following warning indicators:
  - Temperature: axle oil, engine intake manifold
  - Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil
  - Battery voltage hi/low
  - Engine air filter restriction
  - Hydraulic oil filter restriction
  - Hydraulic oil low
  - Parking brake
  - Transmission filter bypass

ELECTRICAL AND LIGHTING
- Batteries (2), maintenance free 1,400 CCA
- Ignition key; start/stop switch
- Starter, electric, heavy duty
- Starting and charging system (24V)
- Lighting system:
  - Four halogen work lights (cab mounted)
  - Two halogen rear vision lights (hood mounted)
  - Two loader tower mounted working lights
  - Rear LED stop tail lights
- Alarm, back-up
- Alternator, 145-amp brushed
- Main disconnect switch
- Receptacle start (cables not included)

CAT CONNECT TECHNOLOGIES
- Link technologies: Product Link
- Detect technologies: rear vision camera

POWER TRAIN
- Engine, Cat C13 ACERT meets Brazil MAR-1 emission standards
- Fuel priming pump (electric)
- Fuel/water separator
- Pre cleaner, engine air intake
- Productive Economy Mode
- Transmission, automatic planetary power shift (4F/4R)
- Torque converter, locking clutch with free wheel stator
- Switch, transmission neutralizer lockout
- Axles, open differential front and rear axles
- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)
- Brake wear indicators
- Parking brake, disc and caliper
- Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand

LINKAGE
- Linkage, Z-bar, cast crosstube/tilt lever
- Kickout, lift and tilt, automatic (adjustable in cab)

HYDRAULICS
- Hydraulic system, load sensing
- Steering, load sensing
- Remote diagnostic pressure taps
- Hoses, Cat XT™
- Couplings, Cat O-ring face seal
- Hydraulic oil cooler (swing out)
- Oil sampling valves

FLUIDS
- Premixed extended life coolant with freeze protection to –34° C

OTHER STANDARD EQUIPMENT
- Toolbox
- Hood, non-metallic power tilting
- Service centers (electrical and hydraulic)
- Auto idle shutdown
- Fenders, front
- Ecology drains for engine, transmission, and hydraulics
- Grill, airborne debris
- Filters: fuel, engine air, engine oil, hydraulic oil, transmission
- Grease zerk
- Hitch, drawbar with pin
- Pre cleaner rain cap
- Sight gauges: engine coolant, hydraulic oil, and transmission oil level
- Vandalism protection caplocks
Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

**OPERATOR ENVIRONMENT**
- Cover, HVAC metallic
- EH controls, SAL 3rd function
- EH controls, joystick lift and tilt
  - Additional integrated roller switches for 3rd function
- Mirrors, heated rearview external with integrated spot mirrors
- Pre cleaner, HVAC
- Radio, AM/FM/USB/MP3 Bluetooth™
- Radio, AM/FM/CD/USB/MP3 Bluetooth
- Radio, CB ready
- Seat, heated air suspension
- Cat seat cover
  - Seat belt, 76 mm retractable, with indicator
- Roof, metallic
- Steering, secondary
- Sun visor, rear
- Windows, rubber mounted
- Windows, with front guard
- Windows, with full guards front, rear and sides
- Full time rear vision display Work Area Vision System (WAVS)

**ELECTRICAL AND LIGHTING**
- Four additional auxiliary halogen cab mounted work lights or
- Two additional auxiliary front HI LED and two additional auxiliary rear LED cab mounted work lights, two LED work lights in the radiator grill, LED front turn signals, replacement of the standard four halogen cab mounted work lights with four LED work lights, LED roading lights
- Roading lights, halogen with turn signals
- Warning amber strobe beacon
- Two LED stop, turn, tail lights

**STARTERS, BATTERIES, AND ALTERNATORS**
- Cold start – 240V

**CAT CONNECT TECHNOLOGIES**
- Link technologies:
  - VIMS™
- Payload technologies:
  - Cat Production Measurement
  - Printer, Cat Production Measurement
  - Aggregate Autodig
- Detect technologies:
  - Cat Rear Object Detection
  - Machine Security System

**POWER TRAIN**
- Axles
  - Limited slip differentials, front and/or rear
  - Axle oil cooler
  - Ecology drains
  - Extreme temperature seals
  - Seal guards
- Fan, VPF (variable pitch fan), automatic and manual control
- Radiator, high debris with wider fin spacing

**LINKAGE**
- High lift
- Forestry
- Quick coupler ready

**WORK TOOLS**
- Performance Series buckets
- Forks, pallet
- Forks, logging

**HYDRAULICS**
- 3rd function with Ride Control
  - Standard linkage
  - High lift linkage
  - Forestry linkage
- Ride control, 2V

**FLUIDS**
- Premixed extended life coolant with freeze protection to –50° C

**OTHER OPTIONAL EQUIPMENT**
- Cat Autolube System
- Fenders, roading
- Guard, power train
- Pre cleaner, turbine
- Pre cleaner, trash
- Platform, window washing
- Cold weather package
  - Transmission filter bypass
  - Fan pump bypass
  - Jacket water or engine block heater
  - Ether aid ready

**OTHER OPTIONAL CONFIGURATIONS**
- Aggregate Handler
- Industrial and Waste Handler
- Steel Mill
- Block Handler
- Forestry
- Port and Harbor