### Engine (U.S. EPA Tier 4 and EU Stage V)

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat® C27 ACERT™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Power – SAE J1995</td>
<td>615 kW 825 hp</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>572 kW 768 hp</td>
</tr>
</tbody>
</table>

### Engine (U.S. EPA Tier 2 Equivalent)

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat C27 ACERT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Power – SAE J1995</td>
<td>615 kW 825 hp</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>584 kW 783 hp</td>
</tr>
</tbody>
</table>

### Operating Specifications (Tier 4/Stage V)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Target Payload (100%)</th>
<th>Maximum Working Payload (110%)</th>
<th>Maximum Allowable Payload (120%)*</th>
<th>Body Capacity – SAE 2:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>64.0 tonnes 70.5 tons</td>
<td>70.3 tonnes 77.5 tons</td>
<td>76.7 tonnes 84.6 tons</td>
<td>42.23 m³ 55.23 yd³</td>
</tr>
</tbody>
</table>

### Operating Specifications (Tier 2 Equivalent)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Target Payload (100%)</th>
<th>Maximum Working Payload (110%)</th>
<th>Maximum Allowable Payload (120%)*</th>
<th>Body Capacity – SAE 2:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>64.6 tonnes 71.3 tons</td>
<td>71.1 tonnes 78.3 tons</td>
<td>77.5 tonnes 85.5 tons</td>
<td>42.23 m³ 55.23 yd³</td>
</tr>
</tbody>
</table>

*Capacity with Dual Slope body – no liner.
* Refer to the Caterpillar 10/10/20 Payload Policy for maximum gross machine weight limitations.
Caterpillar is pleased to introduce to you the 775G Off-Highway Truck. You may be asking how, after 40 years of building trucks, Caterpillar has improved this product’s ability to support your business.

G Series has been designed and manufactured using the latest quality control technologies; both virtual and hands on. This product has over 30,000 hours of proven performance in the hands of customers prior to production, all of which ensures the truck delivered to your yard is ready to work, reliably and dependably.

In addition to quality, Cat G Series trucks will lower your costs with seven different ways to help you conserve fuel. We offer you two customizable fuel economy modes that will let you choose your level of savings. With Cat G Series trucks in your haul fleets, you can be more productive, spend less time on maintenance, and support the environment with new levels of eco performance. Your crew will appreciate all the new comfort and conveniences in our updated cab. Simply put, Cat G Series trucks can and will make a positive difference to both your business and people.

Contents
The Operator Experience.........................3
Performance .............................................4
Fuel Saving Strategies ..........................5
Structural Integrity.................................6
Power Train.............................................7
Emission Controls.................................8
G Series Body Strategy.........................9
Machine Information and Monitoring....10
Serviceability.......................................12
Safety..................................................14
Sustainability......................................15
Specifications.....................................16
Standard Equipment..........................30
Optional Equipment.............................31
The Operator Experience
Best in the industry

Operator Confidence
• Ergonomics that put controls within reach
• New braking performance and design
• Engine braking option for Automatic Retarding Control (ARC)
• Improved retarder lever ergonomics and activation
• Mirror options including heated and concave
• Seating that adjusts to individual needs with suspension and three-point harness
• Seating for trainer or folds up for additional work space
• In-cab fluid level monitoring
• Machine event warnings and messaging

Operator Comfort
• Industry leading access system, with low-effort climbing and three-points of contact
• Exceptionally smooth machine performance
• A 50% noise reduction from the F Series cab
• Automatic temperature control
• Cat Comfort Seat is Series III with vibration reduction
• Electric window – left side
• New foot rest addition

Operator Safety
• Emergency egress out right side, hinged window
• Enhanced ROPS/FOPS design in cab structure
• Secondary braking
• Ground level daily checks
• TKPH/TMPH Tire Monitoring System
• Warnings via Advisor display
• Body up speed limited, can be set by customer
• New tread plate design on access system; better traction; sheds material from walkways
Performance
Intelligent application of power and technology

**Power**
The Cat C27 ACERT diesel engine is delivering 5% additional power to the drive train. As a result, new and more robust drive train components, including a larger drive shaft and differential gears, have been designed to handle the power.

**Technology**
G Series introduces a new planetary powershift transmission control strategy called APECS. APECS takes the benefits of Electronic Clutch Pressure Control (ECPC) and adds part throttle shifting and torque shift management. The result is exceptionally smooth automotive-type shifting and ride quality. APECS also retains torque and momentum through the shifts; increasing performance on grades. The result is quick starts from a standstill and exceptionally smooth shift and ride quality.

**Intelligence**
A new Traction Control System (TCS) is now steering sensitive to differentiate between tire spin or high speed turns. The system now uses the hydraulically applied service brakes (vs. spring applied secondary brakes), allowing it to engage sooner and at lower speeds. G Series TCS modulates power and braking instantaneously between the two wheel groups, allowing a more appropriate response to ground conditions and returning the truck to solid footing much sooner.
Fuel Saving Strategies
Solutions that support your lowest cost per ton

Fuel Saving Strategies

• **Standard Economy Mode** – G Series can adjust engine power based on your individual needs. With this feature, fuel savings are achieved by reducing power between 0.15 to 15 percent.

• **Adaptive Economy Mode** – New for G Series – requires a baseline for production from you. As the truck goes through the haul cycle, it constantly evaluates your baseline against opportunities to reduce power and save fuel. It’s fully automatic with no special operation required.

• **Speed Limiting** – while you can continue to gear limit your G Series trucks, Caterpillar offers another alternative you can utilize which is the new speed limiting feature. Speed limiting allows the truck to travel in its most fuel efficient gear.

• **Auto Neutral Idle** – as the 775G waits for the loader or crusher while idling in a forward gear, the transmission will automatically slip into a neutral state to avoid stalling the torque converter and raising engine rpm. As soon as the operator releases the brake or applies throttle, the truck is instantly back in the forward gear.

• **Engine Idle Shutdown** – when your G Series truck is in park and idles for more than a preset time, which is set by the customer, the truck will initiate engine shutdown to conserve fuel. This feature can be time adjusted or turned on or off according to your specific needs.
Structural Integrity
Designed for years of off-road service

New Brake Design
G Series has increased the number of springs in its brake design. This increases the force available to disengage the brakes ensuring clearances are maintained, reducing wear. A new brake wear indicator can be found on the rear wheels to help you monitor brake life.

Extending brake life can also be achieved by choosing the optional Cat Engine Brake. This Caterpillar design works in conjunction with the ARC to slow the machine.

Rear Wheel Steel Spindles
G Series wheel spindles are solid steel and interchangeable from one side to the other, extending their useful service life.

Inverted Rear Cylinders
For G Series, Caterpillar has inverted the rear suspension cylinders to better protect the rods, keeping them cleaner for longer durations.

Structures
Updated castings, improved bolted joints, and a larger rear axle have matched the chassis design with the higher power ratings and performance specifications of the truck.
Power Train
Application specific designs for industry leading performance

Engine
G Series trucks retain the highly productive and reliable Cat C27 ACERT diesel engine.
- With a 5% boost in power, the C27 is delivering higher torque for work.
- With the precision and responsiveness of Cat MEUI™ fuel injectors and electronic controls, the C27 accurately controls fuel, emissions, and performance.
- The C27 is carefully balanced with vibration controls that reduce noise and protect against unnecessary wear.
- The C27 is cooled by either a demand fan (standard on Tier 4/Stage V) or conventional cooling fan.

Planetary Powershift Transmission
With new control strategies, this proven transmission is better than ever. Its new features include gear changes as smooth as an automobile and more torque through the shifts, getting the truck up to speed faster and negotiating grades quicker.
Emission Controls
Major improvements for air quality using simple to use, reliable solutions

Tier 4/Stage V Emission Controls
Caterpillar offers a simple and robust U.S. EPA Tier 4 and EU Stage V passive solution. Other than normal maintenance, this system requires no additional input or intervention by the operator.

NO\textsubscript{x} Reduction
Supported by cleaner burning, ultra-low sulfur diesel fuel and low ash oils, Caterpillar uses its engine-mounted NO\textsubscript{x} Reduction System (NRS) Technology to cool combustion chamber temperatures to control NO\textsubscript{x} production.

PM Reduction
Located on top of the engine are two diesel oxidation catalysts (DOC), one for each exhaust outlet. These diesel oxidation catalysts reduce particulate emissions.

Tier 4/Stage V C27 ACERT engines are equipped with MEUI-C injectors. These injectors offer exceptional fuel atomization for engines running at slower speeds. MEUI-C injectors have an improved fuel shut off response time, saving fuel and reducing emissions.

For customers purchasing trucks outside of North America, Caterpillar offers emission controls similar to those used for Tier 2/Stage II standards.
Caterpillar has made it easier to get the right body for your materials and jobsite needs.

The 775G has a Dual Slope, a Flat Floor, and a Quarry body option.

Our base Flat Floor and Dual Slope bodies have a 20 mm (0.78 in), 400 BNH steel floor. Adding a steel or rubber liner is optional for those applications when you are working with highly abrasive or high impact materials.

Our Quarry body has a 25 mm (0.98 in), 400 BNH steel floor and is designed specifically for limestone applications without additional liners.

Two additional liner packages for the Flat Floor and Dual Slope bodies are available from the factory:

- A 16 mm (0.62 in), 400 BNH steel liner
- A 102 mm (4.01 in) rubber liner
- Sideboards are optional from the factory for the Flat Floor or Dual Slope bodies
- A body heat diverter kit is optional for both Dual Slope and Flat Floor bodies

You will find additional body specifications at the back of this document.

Caterpillar’s 10/10/20 Policy

Caterpillar’s 10/10/20 Payload Policy is in place to help you maximize component life and the availability of your truck. Your Cat dealer can further explain the 10/10/20 Payload Policy. For optimum body life, Caterpillar recommends that 110% payloads occur no more than 10% of the time and that the average of all loads equal the nominal payload. Payloads in excess of 120% of nominal exceed the truck’s design parameters.
Machine Information and Monitoring
Lowering your cost per ton with vital fleet information

Your G Series truck has the ability to communicate and receive valuable information. Information that can lead you to producing at a lower cost per ton.

Instrument Cluster
The instrument cluster is used primarily by the operator for quick and simple machine information at a glance. This display also warns the operator with solid lights (Category 1 Warnings) or flashing lights (Category 2 or 3 Warnings) as well as an audible alarm when an event is occurring.

Cat Advisor Display
The Advisor Display has five menus:
1. **Operator**: allows 10 people to set up individual profiles and preferences.
2. **Monitor**: displays four parameters per screen including:
   - **Payload**: there are three sections: Payload State, Payload, and Target.
   - **Payload State**: will display “Loading,” “Last Pass” or “Loaded.”
   - **Payload**: displays the calculated payload weight, weight is taken twice to confirm.
   - **Target**: displays the target payload.
3. **Service**: diagnostics including events, data logger, parameters, calibrations and more.
4. **Settings**: set specific targets for autolube intervals, speed limit and more.
5. **Service Mode**: a portal to password protected parameters.

VIMS™
Vital Information Management System (VIMS™) is the hardware and software behind the machine information and payload tracking that comes through the Advisor display on your 775G truck. VIMS is standard, and like the Truck Production Management System, can greatly improve your ability to manage your fleet efficiency, machine production, and provide operators with vital machine information.
Truck Production Management System
Cat Truck Production Management System will help you get the best return on your truck investment by making sure you’re hauling appropriate payloads with every cycle.
• Indicator side lights show the loader operator when they are on their last pass and when the truck is fully loaded
• Truck Production Management System stores 2,400 payload cycles; reports on weights, haul cycle times, distances, with date and time stamps

Ton Kilometer per Hour (TKPH), Ton Mile per Hour (TMPH) Tire Monitoring
This program takes the payload value from Truck Production Management System and combines it with ambient air temperature, machine speed, the manufacturer’s TKPH (TMPH) rating for your tires, and calculates tire condition continuously. As a tire approaches its temperature limits, the operator gets a warning inside the cab. This Caterpillar exclusive feature is an important tool in your efforts to extend tire life.

NOTE: TKPH (TMPH) is a measure of the tire’s temperature limits to prevent reverse vulcanization of the tire and the associated damage.

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. Events and diagnostic codes, as well as 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.

* Product Link licensing not available in all areas. Please consult your Cat dealer for availability.
**Serviceability**

**Clean, convenient, time-saving solutions**

G Series will introduce time-saving service improvements to simplify monitoring and maintaining machine fluid levels, help keep your site clean, and reduce your costs associated with service.

---

**Fluid Fill Service Center**

A new optional fluid fill service center is located on the right front side of the machine. Technicians can check the level of all machine fluids including:

- Transmission/torque converter hydraulic oil
- Hoist/Brake hydraulic oil
- Diesel fuel
- Engine oil
- Engine coolant

A lighted keypad will indicate three green lights if the fluid level is full, two green lights if the fluid level is at normal levels, and one light if fluid should be added.

---

**Cab Fluid Level Monitoring**

The fluid levels cannot be checked in the cab via the Advisor screen options menu. All the fluids are being monitored, but will only indicate to the operator when the level is below a safe operating level.

---

**Electrical Service Center**

An Electrical Service Center is also at ground level located on the right front bumper of the machine.

This service center offers connections to:

1. Master Disconnect Switch
2. Auxiliary Start Receptacle
3. Light
4. VIMS Port
5. ET Port
6. Hydraulics Lockout
7. Engine Lockout
8. Breaker – Engine Control
9. Breaker – Alternator
10. Breaker – Main Electrical
Brake Wear Indicator
G Series trucks will come equipped from the factory with a simple, time-saving brake wear indicator on the left rear wheel that provides technicians with a visible indicator for rear brake wear levels.

Filters
Due to improved hydraulic system updates, which have made the system more efficient, Caterpillar is able to extend hydraulic filter life to 1,000 hours under normal operating conditions. All engine filters are conveniently grouped and easily accessible.

Fuel
The 775G fuel tank is now larger (795 L or 210 gallons) to extend running time. The tank includes two new sight gauges that levels at ¼ full and ¾ full. Note that Tier 4/Stage V equipped machines require ultra-low sulfur diesel fuel and low ash engine oil.

Cab Air Filter Precleaner
An optional cab precleaner is available for air filters. This option can significantly extend your cab filter life and service intervals. Our field follow program machines saw significant benefits to filter life in the G Series machines.

Air Inlet Filters
The engine air inlet filters are conveniently located for secure, simple service.
Safety
Focus on people and resources

Cat trucks offer operators a comfortable, confident ride with safety features that help them stay informed, alert, and in control.

Safety
• Ground level daily check points
• Excellent visibility using mirrors, optional camera (WAVS), and in-cab display
• Solid, stable walking/working platforms with good traction, material shedding, handrails
• Emergency egress from within the cab through a hinged, right side window
• Ground level electrical service box for lockout/tag out, steering system lockout
• Ground level optional fluid fill center with level check keypad
• Secondary steering, engages automatically
• Three levels of braking (service, secondary, engine) red foot pedal for secondary brakes
• ROPS/FOPS structures in cab
• Brake wear indicator
• Three-point harness operator seat belt
• Trainer seat with lap belt
• Body up speed limiting
• Haul road speed limiting, setting safe conditions for everyone
• Automatic Retarder Control, smooth predictable performance
• New Traction Control System, returns the truck to solid footing sooner
• In-cab fluid level monitoring for operator
• TKPH/TMPH – Tire Monitoring System
• Truck Production Management System providing payload, fuel, segment and cycle time information
• Engine overspeed protection using ARC
• Three levels of warning for parameters outside of their working zones
At Caterpillar, sustainable designs have always been a priority. Cat trucks have historically offered industry leading availability, life cycles, and parts commonality. Today we offer even more ways to reduce our impact on the environment.

With G Series, Caterpillar is pleased to be releasing its first North American Tier 4/Stage V product. In addition to contributing to better air quality, G Series offers lower operator sound levels and new ways to conserve fuel.

- Fuel conservation features: two fuel economy modes, speed limiting, Auto Neutral Idle, Engine Idle Shutdown, new Traction Control System
- Keeping the site clean with grouped service locations, ecology drains and convenient, optional fluid fill and electrical service centers
- Reducing operator cab noise levels by 50% from previous trucks
- Longer component life for tires using TCS and TKPH/TMPH
- Longer life steel spindles, new brake designs, stronger frame
- Cat Reman parts offer recycling and reuse opportunities with no risk
- Longer service life for hydraulic oil filters (1,000 hrs) and air filters with precleaner installed
- Improved air quality with Tier 4 emission controls (for North America) reducing NOx and Particulate Matter by 90% over Tier 3 as well as reduced CO2 emissions from fuel conservation
- Parts commonality with other Cat equipment
## Engine (Tier 4/Stage V)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat C27 ACERT</td>
</tr>
<tr>
<td>Rated Engine Speed</td>
<td>1,800 rpm</td>
</tr>
<tr>
<td>Gross Power – SAE J1995</td>
<td>615 kW 825 hp</td>
</tr>
<tr>
<td>Net Power – SAE J1349</td>
<td>572 kW 768 hp</td>
</tr>
<tr>
<td>Net Power – ISO 9249</td>
<td>578 kW 775 hp</td>
</tr>
<tr>
<td>Net Power – ISO 14396</td>
<td>605.2 kW 812 hp</td>
</tr>
<tr>
<td>Peak Torque Speed</td>
<td>1,200 rpm</td>
</tr>
<tr>
<td>Net Torque</td>
<td>4269 N·m 3,148 lb-ft</td>
</tr>
<tr>
<td>Bore</td>
<td>137 mm 5.4 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>152 mm 6 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>27 L 1.648 in³</td>
</tr>
</tbody>
</table>

## Transmission (Tier 4/Stage V)

<table>
<thead>
<tr>
<th>Speed Mode</th>
<th>Speed (km/h)</th>
<th>Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward 1</td>
<td>10.6</td>
<td>6.6</td>
</tr>
<tr>
<td>Forward 2</td>
<td>15.0</td>
<td>9.3</td>
</tr>
<tr>
<td>Forward 3</td>
<td>20.3</td>
<td>12.6</td>
</tr>
<tr>
<td>Forward 4</td>
<td>27.0</td>
<td>16.8</td>
</tr>
<tr>
<td>Forward 5</td>
<td>36.7</td>
<td>22.8</td>
</tr>
<tr>
<td>Forward 6</td>
<td>49.4</td>
<td>30.7</td>
</tr>
<tr>
<td>Forward 7</td>
<td>66.9</td>
<td>41.6</td>
</tr>
<tr>
<td>Reverse</td>
<td>14.0</td>
<td>8.7</td>
</tr>
</tbody>
</table>

## Transmission (Tier 2 Equivalent)

<table>
<thead>
<tr>
<th>Speed Mode</th>
<th>Speed (km/h)</th>
<th>Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Forward 1</td>
<td>10.8</td>
<td>6.7</td>
</tr>
<tr>
<td>Forward 2</td>
<td>15.1</td>
<td>9.4</td>
</tr>
<tr>
<td>Forward 3</td>
<td>20.4</td>
<td>12.7</td>
</tr>
<tr>
<td>Forward 4</td>
<td>27.4</td>
<td>17.0</td>
</tr>
<tr>
<td>Forward 5</td>
<td>37.0</td>
<td>23.0</td>
</tr>
<tr>
<td>Forward 6</td>
<td>50.1</td>
<td>31.1</td>
</tr>
<tr>
<td>Forward 7</td>
<td>67.6</td>
<td>42.0</td>
</tr>
<tr>
<td>Reverse</td>
<td>14.1</td>
<td>8.8</td>
</tr>
</tbody>
</table>

## Final Drives

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Differential Ratio</td>
<td>3.64:1</td>
</tr>
<tr>
<td>Planetary Ratio</td>
<td>4.80:1</td>
</tr>
<tr>
<td>Total Reduction Ratio</td>
<td>17.49:1</td>
</tr>
</tbody>
</table>

## Brakes

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Surface – Front</td>
<td>655 cm² 257 in²</td>
</tr>
<tr>
<td>Brake Surface – Rear</td>
<td>61269 cm² 9,497 in²</td>
</tr>
<tr>
<td>Brake Standards</td>
<td>ISO 3450:2011</td>
</tr>
</tbody>
</table>

## Body Hoists (Tier 4/Stage V)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Flow – High Idle</td>
<td>448 L/min 118 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting – Raise</td>
<td>17.250 kPa 2,502 psi</td>
</tr>
<tr>
<td>Relief Valve Setting – Lower</td>
<td>3450 kPa 500 psi</td>
</tr>
<tr>
<td>Body Raise Time – High Idle</td>
<td>10.0 seconds</td>
</tr>
<tr>
<td>Body Lower Time – Float</td>
<td>14.0 seconds</td>
</tr>
<tr>
<td>Body Power Down – High Idle</td>
<td>14.0 seconds</td>
</tr>
</tbody>
</table>

## Body Hoists (Tier 2 Equivalent)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Flow – High Idle</td>
<td>448 L/min 118 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting – Raise</td>
<td>17.250 kPa 2,502 psi</td>
</tr>
<tr>
<td>Relief Valve Setting – Lower</td>
<td>3450 kPa 500 psi</td>
</tr>
<tr>
<td>Body Raise Time – High Idle</td>
<td>9.5 seconds</td>
</tr>
<tr>
<td>Body Lower Time – Float</td>
<td>13.0 seconds</td>
</tr>
<tr>
<td>Body Power Down – High Idle</td>
<td>13.0 seconds</td>
</tr>
</tbody>
</table>
### 775G Off-Highway Truck Specifications

#### Capacity – Dual Slope – 100% Fill Factor

<table>
<thead>
<tr>
<th></th>
<th>Struck</th>
<th>Heaped (SAE 2:1)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32.6 m³</td>
<td>42.2 m³</td>
</tr>
<tr>
<td>Struck</td>
<td>42.7 yd³</td>
<td>55.5 yd³</td>
</tr>
</tbody>
</table>

*Contact your local Cat dealer for body recommendation.

*ISO 6483:1980

#### Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>795 L 210 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>171 L 45 gal</td>
</tr>
<tr>
<td>Crankcase</td>
<td>90 L 24 gal</td>
</tr>
<tr>
<td>Differentials and Final Drives</td>
<td>145 L 38 gal</td>
</tr>
<tr>
<td>Steering Tank</td>
<td>36 L 9.5 gal</td>
</tr>
<tr>
<td>Steering System (includes tank)</td>
<td>54 L 14 gal</td>
</tr>
<tr>
<td>Brake/Hoist Hydraulic Tank</td>
<td>176 L 46.5 gal</td>
</tr>
<tr>
<td>Brake Hoist System</td>
<td>322 L 85 gal</td>
</tr>
<tr>
<td>Torque Converter/Transmission System HRC</td>
<td>70 L 18 gal</td>
</tr>
<tr>
<td>Torque Converter/Transmission System LRC</td>
<td>61 L 16 gal</td>
</tr>
</tbody>
</table>

#### Capacity – Flat Floor – 100% Fill Factor

<table>
<thead>
<tr>
<th></th>
<th>Struck</th>
<th>Heaped (SAE 2:1)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>32.3 m³</td>
<td>42.2 m³</td>
</tr>
<tr>
<td>Struck</td>
<td>42.2 yd³</td>
<td>55.2 yd³</td>
</tr>
</tbody>
</table>

*Contact your local Cat dealer for body recommendation.

*ISO 6483:1980

#### Weight Distributions – Approximate

<table>
<thead>
<tr>
<th>Distribution</th>
<th>Empty</th>
<th>Loaded</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Axle – Empty</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Front Axle – Loaded</td>
<td>34%</td>
<td></td>
</tr>
<tr>
<td>Rear Axle – Empty</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Rear Axle – Loaded</td>
<td>66%</td>
<td></td>
</tr>
</tbody>
</table>

#### Suspension

<table>
<thead>
<tr>
<th>Component</th>
<th>Stroke</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empty Loaded Cylinder Stroke Front</td>
<td>234 mm 9.2 in</td>
</tr>
<tr>
<td>Empty Loaded Cylinder Stroke Rear</td>
<td>149 mm 5.8 in</td>
</tr>
<tr>
<td>Rear Axle Oscillation</td>
<td>8.1°</td>
</tr>
</tbody>
</table>

#### Sound

**Sound Standards**

- The operator Equivalent Sound Pressure Level (Leq) is 76 dB(A) when SAE J1166 FEB2008 is used to measure the value for an enclosed cab. This is a work cycle sound exposure level. The cab was properly installed and maintained. The test was conducted with the cab doors and the cab windows closed.
- The exterior sound pressure level for the standard machine measured at a distance of 15 m (49 ft) according to the test procedures specified in SAE J88:2008, mid-gear moving operation is 86 dB(A).
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

#### Tires

**Standard Tire**

24.00R35 (E4)

- Productive capabilities of the 775G truck are such that, under certain job conditions, TKPH (TMPH) capabilities of standard or optional tires could be exceeded and, therefore, limit production.
- Caterpillar recommends the customer evaluate all job conditions and consult the tire manufacturer for proper tire selection.

#### ROPS

**ROPS/FOPS Standards**

- Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 ROPS criteria.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria.
## Weight/Payload Calculation – Tier 4/Stage V Examples

<table>
<thead>
<tr>
<th>Flat Floor</th>
<th>Machine Weights Based on Configuration</th>
<th>354-7900 Without Liner</th>
<th>377-6400 With Liner</th>
<th>377-6402 With Rubber Liner</th>
<th>354-7950 Quarry Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base: Floor/Sidewall/Frontwall mm (in)</td>
<td>20/10/12 (0.79/0.39/0.47)</td>
<td>20/10/12 (0.79/0.39/0.47)</td>
<td>20/10/12 (0.79/0.39/0.47)</td>
<td>25/14/16 (0.98/0.55/0.62)</td>
<td></td>
</tr>
<tr>
<td>Liner: Floor/Sidewall/Frontwall mm (in)</td>
<td>16/8/10 (0.62/0.31/0.39)</td>
<td>102/8/8 (4.0/0.31/0.31)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Body Volume</strong> m³ (yd³)</td>
<td>42.2 (55.2)</td>
<td>41.6 (54.4)</td>
<td>39.8 (52.0)</td>
<td>41.9 (54.9)</td>
<td></td>
</tr>
<tr>
<td><strong>Target Gross Machine Weight</strong> kg (lb)</td>
<td>111 811 (246,502)</td>
<td>111 811 (246,502)</td>
<td>111 811 (246,502)</td>
<td>111 811 (246,502)</td>
<td></td>
</tr>
<tr>
<td><strong>Empty Chassis Weight</strong> kg (lb)</td>
<td>35 708 (78,723)</td>
<td>35 708 (78,723)</td>
<td>35 708 (78,723)</td>
<td>35 708 (78,723)</td>
<td></td>
</tr>
<tr>
<td><strong>Body System Weight</strong> kg (lb)</td>
<td>11 760 (25,926)</td>
<td>15 885 (35,021)</td>
<td>16 732 (36,888)</td>
<td>13 827 (30,483)</td>
<td></td>
</tr>
<tr>
<td><strong>Empty Machine Weight</strong> kg (lb)</td>
<td>47 468 (104,649)</td>
<td>51 593 (113,743)</td>
<td>52 440 (115,611)</td>
<td>49 535 (109,206)</td>
<td></td>
</tr>
<tr>
<td><strong>Fuel Tank Size L (gal)</strong></td>
<td>795 (210)</td>
<td>795 (210)</td>
<td>795 (210)</td>
<td>795 (210)</td>
<td></td>
</tr>
<tr>
<td><strong>Fuel Tank – 100% Fill</strong> kg (lb)</td>
<td>669 (1,474)</td>
<td>669 (1,474)</td>
<td>669 (1,474)</td>
<td>669 (1,474)</td>
<td></td>
</tr>
<tr>
<td><strong>Empty Operating Weight</strong> kg (lb)</td>
<td>48 137 (106,123)</td>
<td>52 262 (115,217)</td>
<td>53 109 (117,085)</td>
<td>50 204 (110,680)</td>
<td></td>
</tr>
<tr>
<td><strong>Target Payload (100%)</strong> kg (lb)</td>
<td>63 674 (140,379)</td>
<td>59 549 (131,284)</td>
<td>58 702 (129,417)</td>
<td>61 607 (135,822)</td>
<td></td>
</tr>
<tr>
<td><strong>Target Payload Material Density</strong> kg/m³ (lb/yd³)</td>
<td>1677 (2,826)</td>
<td>1591 (2,681)</td>
<td>1639 (2,765)</td>
<td>1634 (2,749)</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Working Payload (110%)</strong> kg (lb)</td>
<td>70 041 (154,416)</td>
<td>65 504 (144,413)</td>
<td>64 572 (142,359)</td>
<td>67 768 (149,404)</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum (110%) Payload Material Density</strong> kg/m³ (lb/yd³)</td>
<td>1844 (3,108)</td>
<td>1750 (2,950)</td>
<td>1803 (3,042)</td>
<td>1797 (3,024)</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Allowable Payload (120%)</strong> kg (lb)</td>
<td>76 409 (168,454)</td>
<td>71 459 (157,541)</td>
<td>70 442 (155,301)</td>
<td>73 928 (162,986)</td>
<td></td>
</tr>
<tr>
<td><strong>Maximum (120%) Payload Material Density</strong> kg/m³ (lb/yd³)</td>
<td>2012 (3,391)</td>
<td>1909 (3,218)</td>
<td>1967 (3,318)</td>
<td>1960 (3,299)</td>
<td></td>
</tr>
</tbody>
</table>

*Refer to Caterpillar 10/10/20 Payload Policy.*
### Dual Slope

#### Machine Weights Based on Configuration

<table>
<thead>
<tr>
<th></th>
<th>354-7910 Without Liner</th>
<th>377-6410 With Liner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base: Floor/Sidewall/Frontwall</td>
<td>20/10/12 (0.79/0.39/0.47)</td>
<td>20/10/12 (0.79/0.39/0.47)</td>
</tr>
<tr>
<td>Liner: Floor/Sidewall/Frontwall</td>
<td>16/8/10 (0.62/0.31/0.39)</td>
<td></td>
</tr>
</tbody>
</table>

#### Body Volume
- m³ (yd³)
  - Base: 42.2 (55.2)
  - Liner: 41.7 (54.5)

#### Target Gross Machine Weight
- kg (lb)
  - Base: 111 811 (246,502)
  - Liner: 111 811 (246,502)

#### Empty Chassis Weight
- kg (lb)
  - Base: 35 708 (78,723)
  - Liner: 35 708 (78,723)

#### Body System Weight
- kg (lb)
  - Base: 47 174 (104,001)
  - Liner: 51 190 (112,855)

#### Empty Machine Weight
- kg (lb)
  - Base: 66 670 (147,951)
  - Liner: 66 670 (147,951)

#### Fuel Tank Size
- L (gal)
  - Base: 795 (210)
  - Liner: 795 (210)

#### Empty Operating Weight
- kg (lb)
  - Base: 47 843 (105,475)
  - Liner: 51 859 (114,329)

#### Target Payload (100%)*
- kg (lb)
  - Base: 63 968 (141,027)
  - Liner: 59 952 (132,173)

#### Target Payload Material Density
- kg/m³ (lb/yd³)
  - Base: 1684 (2,839)
  - Liner: 1597 (2,695)

#### Maximum Working Payload (110%)*
- kg (lb)
  - Base: 70 365 (155,129)
  - Liner: 65 947 (145,390)

#### Maximum (110%) Payload Material Density
- kg/m³ (lb/yd³)
  - Base: 1853 (3,123)
  - Liner: 1757 (2,964)

#### Maximum Allowable Payload (120%)*
- kg (lb)
  - Base: 76 762 (169,232)
  - Liner: 71 942 (158,607)

#### Maximum (120%) Payload Material Density
- kg/m³ (lb/yd³)
  - Base: 2021 (3,406)
  - Liner: 1917 (3,234)

---

### Sideboards (optional)

<table>
<thead>
<tr>
<th>Height</th>
<th>Volume Add</th>
<th>Weight</th>
<th>Maximum (110%) Material Density**</th>
</tr>
</thead>
<tbody>
<tr>
<td>mm</td>
<td>m³ (yd³)</td>
<td>kg (lb)</td>
<td>kg/m³ (lb/yd³)</td>
</tr>
<tr>
<td>155</td>
<td>2.9</td>
<td>430</td>
<td>1681</td>
</tr>
</tbody>
</table>

**Based on Quarry Body at 90% Body Volume Fill.
Empty Chassis Weight is figured without fuel.

---

### Payload Calculation: Definitions

- **Empty Machine Weight** = Empty Chassis Weight + Body System Weight
- **Target Payload** = Target Gross Machine Weight less Empty Machine Weight
- **Maximum Payload** = Target Payload × 1.10 (110%)
The ideal hauling strategy that maximizes machine and machine component life is to *keep the mean of all payloads at or below the machine’s rated target payload*. 

- 90% of loads should fall into this range
- No more than 10% of loads should exceed 10% of the target payload
- No loads should be above 20% of the target payload
# 775G Off-Highway Truck Specifications

## Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Dual Slope</th>
<th>Flat Floor</th>
<th>Quarry</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Height to Top of ROPS 4108 mm</td>
<td>4108 mm</td>
<td>4108 mm</td>
</tr>
<tr>
<td>2</td>
<td>Overall Body Length 9215 mm</td>
<td>9293 mm</td>
<td>9295 mm</td>
</tr>
<tr>
<td>3</td>
<td>Inside Body Length 6100 mm</td>
<td>6100 mm</td>
<td>6100 mm</td>
</tr>
<tr>
<td>4</td>
<td>Overall Length 10 073 mm</td>
<td>10 151 mm</td>
<td>10 151 mm</td>
</tr>
<tr>
<td>5</td>
<td>Wheelbase 4215 mm</td>
<td>4215 mm</td>
<td>4215 mm</td>
</tr>
<tr>
<td>6</td>
<td>Rear Axle to Tail 2925 mm</td>
<td>3005 mm</td>
<td>3005 mm</td>
</tr>
<tr>
<td>7</td>
<td>Ground Clearance 759 mm</td>
<td>759 mm</td>
<td>759 mm</td>
</tr>
<tr>
<td>8</td>
<td>Dump Clearance 650 mm</td>
<td>639 mm</td>
<td>639 mm</td>
</tr>
<tr>
<td>9</td>
<td>Loading Height – Empty 3963 mm</td>
<td>3964 mm</td>
<td>3968 mm</td>
</tr>
<tr>
<td>10</td>
<td>Inside Body Depth – Maximum 1945 mm</td>
<td>1892 mm</td>
<td>1892 mm</td>
</tr>
<tr>
<td>11</td>
<td>Overall Height – Body Raised 9279 mm</td>
<td>9279 mm</td>
<td>9283 mm</td>
</tr>
<tr>
<td>12</td>
<td>Operating Width 5673 mm</td>
<td>5673 mm</td>
<td>5673 mm</td>
</tr>
<tr>
<td>13</td>
<td>Centerline Front Tire Width 3205 mm</td>
<td>3205 mm</td>
<td>3205 mm</td>
</tr>
<tr>
<td>14</td>
<td>Engine Guard Clearance 703 mm</td>
<td>703 mm</td>
<td>703 mm</td>
</tr>
<tr>
<td>15</td>
<td>Overall Canopy Width 5012 mm</td>
<td>5012 mm</td>
<td>5012 mm</td>
</tr>
<tr>
<td>16</td>
<td>Outside Body Width 4254 mm</td>
<td>4254 mm</td>
<td>4254 mm</td>
</tr>
<tr>
<td>17</td>
<td>Inside Body Width 3986 mm</td>
<td>3986 mm</td>
<td>3986 mm</td>
</tr>
<tr>
<td>18</td>
<td>Front Canopy Height 4459 mm</td>
<td>4457 mm</td>
<td>4463 mm</td>
</tr>
<tr>
<td>19</td>
<td>Rear Axle Clearance 560 mm</td>
<td>560 mm</td>
<td>560 mm</td>
</tr>
<tr>
<td>20</td>
<td>Centerline Rear Dual Tire Width 2929 mm</td>
<td>2929 mm</td>
<td>2929 mm</td>
</tr>
<tr>
<td>21</td>
<td>Overall Tire Width 4411 mm</td>
<td>4411 mm</td>
<td>4411 mm</td>
</tr>
</tbody>
</table>
To determine retarding performance: Add lengths of all downhill segments and, using this total, refer to proper retarding chart. Read from gross weight down to the percent effective grade. Effective grade equals actual % grade minus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-effective grade point, read horizontally to the curve with the highest obtainable gear, then down to maximum descent speed brakes can properly handle without exceeding cooling capacity. The following charts are based on these conditions: 32° C (90° F) ambient temperature, at sea level, with 24.00R35 (E4) tires.

**NOTE:** Select the proper gear to maintain engine rpm at the highest possible level, without overspeeding the engine. If cooling oil overheats, reduce ground speed to allow transmission to shift to the next lower speed range.

---

### Retarding Performance (Tier 4/Stage V)

**GROSS WEIGHT**

<table>
<thead>
<tr>
<th>kg x 1000</th>
<th>lb x 1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>15</td>
<td>1</td>
</tr>
<tr>
<td>30</td>
<td>2</td>
</tr>
<tr>
<td>45</td>
<td>3</td>
</tr>
<tr>
<td>60</td>
<td>4</td>
</tr>
<tr>
<td>75</td>
<td>5</td>
</tr>
<tr>
<td>90</td>
<td>6</td>
</tr>
<tr>
<td>105</td>
<td>7</td>
</tr>
<tr>
<td>120</td>
<td>8</td>
</tr>
<tr>
<td>135</td>
<td>9</td>
</tr>
</tbody>
</table>

**EFFECTIVE GRADE** (Grade minus Rolling Resistance)

<table>
<thead>
<tr>
<th>km/h</th>
<th>mph</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>25</td>
<td>25</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
</tr>
</tbody>
</table>

**SPEED**

Continuous Grade Length

- **E**: Typical Field Empty Weight
- **L**: Target Gross Machine Operating Weight 111 811 kg (246,500 lb)

---

with ARC only

---

ARC and Engine Brake
Retarding Performance (Tier 4/Stage V)

<table>
<thead>
<tr>
<th>Gross Weight</th>
<th>Speed</th>
<th>Grade Distance</th>
</tr>
</thead>
<tbody>
<tr>
<td>lb x 1000</td>
<td>km/h</td>
<td>450 m (1,500 ft)</td>
</tr>
<tr>
<td>kg x 1000</td>
<td>mph</td>
<td></td>
</tr>
</tbody>
</table>

Effective Grade (Grade minus Rolling Resistance)

- with ARC only
- ARC and Engine Brake
E – Typical Field Empty Weight
L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)
Retarding Performance (Tier 4/Stage V)

**GROSS WEIGHT**

Grade Distance – 900 m (3,000 ft)

**SPEED**

Grade Distance – 900 m (3,000 ft)

**GROSS WEIGHT**

Grade Distance – 1500 m (5,000 ft)

---

with ARC only

ARC and Engine Brake

E – Typical Field Empty Weight

L – Target Gross Machine Operating Weight 111,811 kg (246,500 lb)
To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.

---

**GROSS WEIGHT**

- **lb x 1000**
- **kg x 1000**

**RIMPULL**

- **with ARC only**
- **•••• ARC and Engine Brake**

**TOTAL RESISTANCE**

- (Grade plus Rolling Resistance)

**SPEED**

- **0**
- **5**
- **10**
- **15**
- **20**
- **25**
- **30**
- **35**
- **40**
- **45**
- **50**
- **55**

**km/h**

- **mpg**

---

**E – Typical Field Empty Weight**

**L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)**
To determine retarding performance: Add lengths of all downhill segments and, using this total, refer to proper retarding chart. Read from gross weight down to the percent effective grade. Effective grade equals actual % grade minus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-effective grade point, read horizontally to the curve with the highest obtainable gear, then down to maximum descent speed brakes can properly handle without exceeding cooling capacity. The following charts are based on these conditions: 32° C (90° F) ambient temperature, at sea level, with 24.00R35 (E4) tires.

**NOTE:** Select the proper gear to maintain engine rpm at the highest possible level, without overspeeding the engine. If cooling oil overheats, reduce ground speed to allow transmission to shift to the next lower speed range.

---

**with ARC only**

--- --- ARC and Engine Brake

**E** – Typical Field Empty Weight

**L** – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)
Retarding Performance (Tier 2 Equivalent)

with ARC only
- - - - ARC and Engine Brake
E – Typical Field Empty Weight
L – Target Gross Machine Operating Weight 111 811 kg (246,500 lb)
Retarding Performance (Tier 2 Equivalent)

**GROSS WEIGHT**

<table>
<thead>
<tr>
<th>lb x 1000</th>
<th>0</th>
<th>25</th>
<th>50</th>
<th>75</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>175</th>
<th>200</th>
<th>225</th>
<th>250</th>
<th>275</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg x 1000</td>
<td>0</td>
<td>15</td>
<td>30</td>
<td>45</td>
<td>60</td>
<td>75</td>
<td>90</td>
<td>105</td>
<td>120</td>
<td>135</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SPEED**

Grade Distance – 900 m (3,000 ft)

- E – Typical Field Empty Weight
- L – Target Gross Machine Operating Weight 111,811 kg (246,500 lb)

**GROSS WEIGHT**

<table>
<thead>
<tr>
<th>lb x 1000</th>
<th>0</th>
<th>25</th>
<th>60</th>
<th>75</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>175</th>
<th>200</th>
<th>225</th>
<th>250</th>
<th>275</th>
<th>300</th>
</tr>
</thead>
<tbody>
<tr>
<td>km/h</td>
<td>0</td>
<td>50</td>
<td>10</td>
<td>15</td>
<td>20</td>
<td>25</td>
<td>30</td>
<td>35</td>
<td>40</td>
<td>45</td>
<td>50</td>
<td>55</td>
<td>60</td>
</tr>
</tbody>
</table>

**SPEED**

Grade Distance – 1500 m (5,000 ft)

- with ARC only
- --- --- ARC and Engine Brake

E – Typical Field Empty Weight

L – Target Gross Machine Operating Weight 111,811 kg (246,500 lb)
To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus 1% for each 10 kg/t (20 lb/ton) of rolling resistance. From this weight-resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.

GROSS WEIGHT

RIMPULL

TOTAL RESISTANCE

(Grade plus Rolling Resistance)

SPEED

km/h

mph

lb x 1000

g x 1000

with ARC only

-- ARC and Engine Brake

E – Typical Field Empty Weight

L – Target Gross Machine Operating Weight 111,811 kg (246,500 lb)
Standard Equipment

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

POWER TRAIN
- Cat C27 ACERT Tier 4/Stage V compliant diesel engine:
  - Air cleaner with precleaner (2)
  - Air-To-Air Aftercooler (ATAAC)
  - Electric start
  - Engine idle shutdown
  - Ether starting aid
  - Exhaust muffler
  - NGMR radiator
- For Tier 4 regions only (U.S./Canada):
  - Aftertreatment system
  - NOx Reduction System (NRS)
  - Diesel Oxidation Catalyst (DOC)
  - Demand fan
  - MEUI-C fuel system
- For non-regulated regions only:
  - Direct drive fan
  - MEUI-A fuel system
- Braking system:
  - Extended Life Brakes
  - Automatic Retarder Control (ARC)
  - Manual retarder (utilizes rear oil-cooled, multiple disc brakes)
  - Brake release motor (towing)
  - Dry disc brakes (front)
  - Front brake disconnect switch (front)
  - Oil-cooled multiple disc brakes (rear)
  - Brake wear indicator (rear)
  - Parking brake
  - Secondary brake
  - Service brake
- Transmission:
  - 7-speed automatic powershift with:
    • Electronic Clutch Pressure Control (ECPC)
    • Advanced Productivity Electronic Control Strategy (APECs)
  - Automatic neutral idle
  - Autostall
  - Second gear start

SUSPENSION SYSTEMS
- Suspension, front and rear (EU compliant)

ELECTRICAL
- Alarm backup
- Alternator, 120 Amp
- Autolube power supply ready
- Batteries, maintenance-free, 12V (2), 1,400 CCA combined
- Electrical system, 25 Amp, 24V to 12V converter
- Lighting system:
  - Backup light (halogen)
  - Directional signals/hazard warning (front and rear LED)
  - Engine compartment light
  - Headlights, (halogen) with dimmer
  - Operator access courtesy lights
  - Side profile lights
  - Stop/tail lights (LED)
- Service center containing:
  - Battery jump start
  - Breakers with spare fuses
  - Lockout switch
  - Ports, ET, and VIMS
  - Service lockout switch (power without engine start)

TECHNOLOGY PRODUCTS
- Economy Modes, standard and adaptive
- Product Link, cellular or satellite
- Traction Control System (TCS)
- Truck Production Management System (VIMS)

OPERATOR ENVIRONMENT
- Advisor display:
  - Air cleaner service indicator
  - Fluid level monitoring
  - Fuel level monitoring
  - Display languages (market based)
  - Air conditioning/heat
  - Automatic temperature control
  - Ashtray and cigarette lighter
  - Coat hook
  - Cup holders (4)
  - Diagnostic connection port, 24V
  - Entertainment radio ready:
    - 5 amp converter
    - Speakers
    - Antenna
    - Wiring harness
  - Foot rest
  - Gauges/indicators:
    - Brake oil temperature gauge
    - Coolant temperature gauge
    - Engine overspeed indicator
    - Fuel level
    - Hour meter
    - Speedometer with odometer
    - Tachometer
    - Transmission gear indicator
  - Hoist lever
  - Horn
  - Light – courtesy
  - Light – dome
  - Mirrors, non-heated
  - Power port, 24V and 12V (2)
  - Rollover Protection (ROPS)/Falling Object Protection (FOPS)
  - Seat, Cat Comfort Series III:
    - Full air suspension
    - Retractable 3-point seat belt with shoulder harness
  - Seat, training with lap belt
  - Steering wheel, padded, tilt and telescopic
  - Storage compartment
  - Sun visor
  - Throttle lock
  - Window, hinged, right side (emergency exit)
  - Window, powered, left side
  - Windshield wiper intermittent and washer

(continued on next page)
Standard Equipment (continued)

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

GUARDS
• Driveline
• Engine crankcase
• Fan

FLUIDS
• Antifreeze
• Extended life coolant to –34°C (–30°F)
• Grouped ground-level filters

OTHER STANDARD EQUIPMENT
• Body down indicator
• Body safety pin (secures body in up position)
• Center-mounted rims
• Fuel tank, 795 L (210 gal)
• Ground level battery disconnect
• Ground level engine shutdown
• Ground level grease fittings
• Operator Maintenance Manual (OMM)
• Rims 17 × 35
• Rock ejectors
• Secondary steering (electric)
• Tie down eyes
• Tow hooks (front)/tow pin (rear)
• Vandalism protection locks

775G Optional Equipment

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

• Body heat
• Body liner
• Body sideboards
• Cab precleaner
• Cat Engine Brake
• Clustered grease fittings
• Cold weather packages
• Fluid fill service center
• HID lights
• Mirrors, convex
• Mirrors, heated
• Spare rim
• Visibility package (meets ISO 5006 requirements)
• Wheel chocks
• Work Area Vision System (WAVS)