<table>
<thead>
<tr>
<th>Engine</th>
<th></th>
<th>Scaper Bowl</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tractor Engine</strong></td>
<td>Cat® C18 ACERT™</td>
<td><strong>Capacity Heaped</strong></td>
</tr>
<tr>
<td><strong>Scraper Engine</strong></td>
<td>Cat C15 ACERT</td>
<td><strong>33.6 m³ 44 yd³</strong></td>
</tr>
<tr>
<td><strong>Net Power</strong></td>
<td>421/447 kW 564/600 hp</td>
<td><strong>Rated Load</strong></td>
</tr>
<tr>
<td><strong>Scraper Engine</strong></td>
<td></td>
<td><strong>47 174 kg 104,000 lb</strong></td>
</tr>
<tr>
<td><strong>Net Power</strong></td>
<td>306/337 kW 410/451 hp</td>
<td></td>
</tr>
</tbody>
</table>
Quick loading, high travel speeds and the ability to load and dump on the run yield fast cycle times, allowing Cat® Wheel Tractor-Scrapers to deliver a high rate of productivity.

Economical Hauling System

The wheel tractor-scaper, with its ability to load quickly, haul at high speeds and dump on the go, has the potential to be the most profitable hauling system on the job site. This efficiency can result in fewer machines on the job, reduced operating costs and jobs delivered in a shorter period of time.

Power Train

Cat designed and manufactured power train components deliver the power necessary for fast loading and quick hauls. Dual power ratings increase component life in gears 1-2 and deliver maximum productivity in gears 3-8.

Operator Station

Single joystick control of implements, adjustable arm rests, seat, steering column and room to maneuver all reduce fatigue and increase operator comfort and productivity throughout the shift.

Cushion Hitch

Cushion hitch is a Caterpillar proven system for improving ride quality, dampening loads that might otherwise be carried through the frame to the operator. Cushion hitch offers operators a more comfortable haul portion of the work cycle.

Durability

Cat 657G wheel tractor-scrapers have a history of robust structural design, tested and validated to last in the most rugged loading and hauling conditions.
Operator Station
Redesigned for enhanced operator comfort and productivity

Operator Comfort
• Ergonomic layout with plenty of room to work.
• Fatigue fighting low-effort controls with convenient auto-kickouts and detents
• Air suspension Cat Comfort Seat adjusts and rotates for more comfortable machine operation
• HVAC, defroster, radio ready are standard

Productivity
• Excellent visibility to bail, cutting edge and bowl
• Transmission hold maintains gear selection for optimum loading performance
• Dual throttle pedals for independent front and rear engine control
• Single joystick control replaces three implement levers in previous models
• Differential lock improves traction, reducing tire slip, wear, and operating costs
• Hydraulic retarding for braking on grades

Safety
• Hand rails strategically placed for three points of contact
• Seat adjusts for best visibility and access to controls; integrated seat belt
• ROPS/FOPS integrated into cab structure
• Front and rear windshield wipers
• Optional secondary steering helps maneuver the machine when primary steering is inoperable
• Four braking systems: primary, secondary, parking and hydraulic retarding (optional)

Instruments
• 1) Bowl (up/down), 2) Ejector (forward/back), 3) Thumb rocker switch, apron, 4) Transmission hold, 5) Cushion hitch, Trigger switch (not shown) bail control
• Simple gauge cluster is easy to read
• 657G dash can display either front or rear engine data
• Backlit switches are close at hand
• Messaging alerts technicians and operator to service needs
Power Train – Engine
Heavy duty diesel technology for performance and efficiency

ACERT™ Technology
• U.S. EPA Tier 3, EU Stage III emissions compliant
• Controlled combustion using proven systems, components
• Cross flow cylinder heads for clean air, better circulation
• Delivers fuel at the right time and pressure
• Rate shaping manages emissions in the combustion cycle

Cat C18 Engine – Tractor
• Excellent power density, load response across the curve
• High compression ratio improves cold start and performance
• MEUI fuel injection matches quantity and timing to load
• Matched to the high efficiency torque converter and electronically controlled power shift transmission, it has the torque rise to power through tough material and provide years of dependable service

Cat C15 Engine – Scraper
• Strong block and head – 18:1 compression ratio improves cold start performance
• Coolant, oil flow design improves heat transfer for durability
• Articulated two-piece piston with forged steel crown improves thermal stability and strength
• ADEM A4 ECM cold start strategy protects the engine, reduces white smoke and warm up time
• Automatic altitude compensation
• Mechanical Hydraulic Electronic Unit Fuel Injectors (MEUI) improve combustion with precise injection and atomization

Engine Speed Lock
Allows the operator to maintain a given engine speed without using the accelerator pedal.
Power Train – Transmission
Integrated electronics monitor the power train extending component life

Planetary Powershift Transmission Is Electronically Controlled
- Tractor gears 1-2 – converter drive for increased torque, tractor gears 3-8 – direct-drive for drive train efficiency. Scraper gears stay in converter drive for optimum torque
- Transmission Hold maintains converter drive for max rimpull, or holds current gear for best control
- Programmable Top Gear manually sets top gear available (3rd-8th) to match conditions or speed
- Neutral Coast Inhibitor prevents power train overspeeding by synchronizing engine rpm, pump lubrication and drive train speed, preventing under-lubrication
- Hydraulic Retarder (optional) reduces service brake wear and enhances machine control

Final Drives
- Outboard-mounted, planetary design reduces torque loads within the power train
- Double-row roller bearings and Duo-Cone™ seals assure reliability
- Differential Lock improves traction in slippery conditions, reducing tire wear

Brake Performance
- Wide brake shoes and brake drums improve brake performance and reduce brake and drum wear
- Separate front and rear circuits. Secondary brakes engage automatically if service pressure drops
- Parking Brake features a spring-applied, air-released mechanism that operates the service brakes

Torque Converter
Increases rimpull and shortens load times, and eliminates engine stall to efficiently deliver power to the ground and move more dirt.
Electronic Controls
Optimized machine performance and advanced diagnostic capabilities

Benefits of Electronic Control Modules (ECMs)
ECMs (3 on the tractor, 2 on rear-powered scrapers) offer:
• Better fuel economy by optimizing engine settings
• Greater reliability with operator warnings if problems arise
• Combining tractor and rear powered-scraper monitoring systems, easy access diagnostics, more durable components improves serviceability
• Reduced exhaust smoke by optimizing the fuel/air ratio during cranking, starting and acceleration
• Air filter restriction indicator alerts operator if filter exceeds allowable limit
• Periodically raises engine rpm during low idle to keep the batteries fully charged

Combined Electronic Monitoring System (EMS III)
Monitors both the tractor and scraper status on the 657G; access fault codes from one location. The tractor and powered scraper use the same controller for parts commonality and easier servicing.

Product Link Ready
This wireless system lets the customer track location, service meter hours and machine health information. Can also issue alerts if the machine is operated beyond owner defined time and location limits.

Easy Access Diagnostics Means Faster Problem Solving
Diagnostic codes, via the Electronic Technician (Cat ET), and a radio call can often let the service technician know which tools, manuals, and possibly even replacement parts to bring.
Cushion Hitch
The electronically actuated cushion hitch has a parallelogram-type linkage for exceptional strength. Vertically mounted hydraulic cylinder transfers road shocks to nitrogen accumulators. Nitrogen accumulator absorbs and dampens road shocks, thus preventing these loads from being transmitted to the operator.

- controlled oil flow dampens rebound oscillation
- leveling valve applies pressure via an orifice to automatically center piston in the load cylinder
- steel castings are used to eliminate many welded joints and increase strength
- double-kingbolt design withstands high external forces and simplifies installation and removal

Lockout Switch
An operator-selectable lockout switch, located on the joystick, locks the cushion hitch down for improved cutting edge control when loading or dumping.
Scraper Bowl
Designed for fast and precise loading and controlled ejection

**Bowl Design**
Excellent productivity, improved draft arm protection, and better load retention. Low profile design offers less resistance to incoming materials, while cellular construction adds strength and dent resistance to bowl sides and floor.

**Bulldozer Ejection System**
Combines constant spreading control with minimum carryback.

**Overflow Guard**
An available overflow guard on the scraper bowl helps retain material, and limits spills onto the rear of the scraper.

**Push-Loading**
Where material types include rocky/abrasive material, or become traction-limited, push loading a 657G with a Cat D10 or D11 will optimize tire wear and productivity.

**Cutting Edges and Cat Ground Engaging Tools (GET)**
May be adjusted according to job conditions. Smooth and serrated cutting edges with available tip options can be applied to match job site conditions. For most efficient loading, use the thinnest cutting edge that provides satisfactory wear life and impact resistance.

**Tandem Engines**
Tandem engine machines improve cycle times on grades and in slippery underfoot conditions. Also improves the machine’s loading characteristics in tough materials like clay.

**Material Appetite**
Well suited to handle a wide variety of material from clay to shot rock.
Coal Bowl
Purpose-built to meet application specific needs

Bowl Capacity
High-capacity bowls, built longer and taller than earth-moving bowls, allow the 657G to achieve rated load in light weight coal.

Wheel Tractor-Scraper Benefits
- High speed, self-loading productivity for stockpile and feeder management
- Coal pile compaction
- Bowl capacity 56 m³ (73 yd³) heaped
- All-wheel drive allows the machine to work in poor underfoot conditions and operate on piles of loose coal
Push-Pull
Two machines acting as a single self-loading system

Combined Power Increases Production
Push-pull applies the power of four engines to a single cutting edge. The benefit is realized in tough-to-load material and fast loading of both machines. Push-pull applications have the potential to produce the lowest cost per unit volume, and a high rate of production.

Hydraulically Actuated Bail
The push-pull arrangement uses a hydraulically actuated bail and cushioned plate to push, and a hook that is attached to the rear of the scraper to pull.
Serviceability
Easy to Maintain – Easy to Service

**Engine Service Points**
- Maintenance/service points grouped on the right side
- Grouping fluid fill and check points, filters and sampling ports shortens maintenance times
- Electronic Monitoring System (EMS) provides real-time information to the operator of system warnings
- Electronic Technician (Cat ET) displays real-time system data to better inform the service technician

**Implement Valve Relocation**
The implement valve is relocated from the tractor to the top of the scraper draft tube, reducing the number of hoses and tubes crossing over the gooseneck. This reduces potential leak points and improves service access.

**Scraper Electrical Harness and One Piece Power Block**
The flexible ribbon wiring harness oscillates with the machine, and polyurethane boots offer better protection against the elements. The jumpstart receptacle and disconnect switch are integrated into a one-piece power block, with a lockable cover, for better electrical integrity and serviceability.

**Electro-Hydraulic Implement Control Simplifies Serviceability**
Removing the cab pilot valve and associated lines improves reliability and reduces noise. The high efficiency electro-hydraulic pilot oil filter provides cleaner oil for the pilot system.
Support
Cat Dealer services

Product Support
You will find nearly all parts at your dealer parts counter. Cat dealers use a world-wide computer network to find in-stock parts to minimize machine down time. Save money with genuine Cat Reman parts. You receive the same warranty and reliability as new products at substantial cost savings.

Operation
Better operating techniques can help maximize your machine investment. Cat dealers have resources to help you increase productivity, and Caterpillar offers certified operator training classes on most machines.

Machine Selection
Compare machines under consideration before purchase. Cat dealers can estimate component life, preventive maintenance cost, and the true cost of lost production.

Purchase
Consider the financing options available as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over time.

Maintenance Services
Talk to your dealer about the range of available maintenance services like S·O·S™ Analysis and Coolant Sampling. Repair option programs guarantee the cost of repairs up front.

Customer Support Agreements
Cat dealers offer a variety of product support agreements that can meet customers’ specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

Replacement
Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.
<table>
<thead>
<tr>
<th>Engine</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tractor Engine</strong></td>
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</tr>
<tr>
<td>Tractor Engine</td>
<td>Cat® C18 ACERT™</td>
</tr>
<tr>
<td>Scraper Engine</td>
<td>Cat C15 ACERT</td>
</tr>
<tr>
<td><strong>Net Power</strong></td>
<td><strong>Gross Power</strong></td>
</tr>
<tr>
<td>421/447 kW</td>
<td>471 kW</td>
</tr>
<tr>
<td>564/600 hp</td>
<td>563 hp</td>
</tr>
<tr>
<td><strong>Gross Power</strong></td>
<td><strong>Net Power</strong></td>
</tr>
<tr>
<td>– Gears 1-2</td>
<td>421 kW</td>
</tr>
<tr>
<td>– Gears 3-8</td>
<td>447 kW</td>
</tr>
<tr>
<td><strong>Displacement</strong></td>
<td><strong>Net Power</strong></td>
</tr>
<tr>
<td>18.1 L</td>
<td>421 kW</td>
</tr>
<tr>
<td>1,105 in³</td>
<td>(564 hp)</td>
</tr>
<tr>
<td><strong>Bore</strong></td>
<td><strong>Stroke</strong></td>
</tr>
<tr>
<td>145 mm</td>
<td>183 mm</td>
</tr>
<tr>
<td>5.7 in</td>
<td>7.2 in</td>
</tr>
<tr>
<td><strong>Engine Cat</strong></td>
<td><strong>Displacement</strong></td>
</tr>
<tr>
<td>5.9 L</td>
<td>9.25 L</td>
</tr>
<tr>
<td><strong>L 928</strong></td>
<td><strong>L 1,105</strong></td>
</tr>
<tr>
<td><strong>C18</strong></td>
<td><strong>C15</strong></td>
</tr>
<tr>
<td><strong>Tractor Engine</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Net Power</strong></td>
<td><strong>Gross Power</strong></td>
</tr>
<tr>
<td>421 kW</td>
<td>445 kW</td>
</tr>
<tr>
<td>(564 hp)</td>
<td>596 hp</td>
</tr>
<tr>
<td><strong>Gross Power</strong></td>
<td><strong>Net Power</strong></td>
</tr>
<tr>
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<tr>
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<td></td>
</tr>
<tr>
<td><strong>Net Power</strong></td>
<td><strong>Gross Power</strong></td>
</tr>
<tr>
<td>306/337 kW</td>
<td>326 kW</td>
</tr>
<tr>
<td>410/451 hp</td>
<td>437 hp</td>
</tr>
<tr>
<td><strong>Gross Power</strong></td>
<td><strong>Net Power</strong></td>
</tr>
<tr>
<td>– Gears 1-2</td>
<td>306 kW</td>
</tr>
<tr>
<td>– Gears 3-8</td>
<td>337 kW</td>
</tr>
<tr>
<td><strong>Bore</strong></td>
<td><strong>Displacement</strong></td>
</tr>
<tr>
<td>140 mm</td>
<td>15.2 L</td>
</tr>
<tr>
<td>5.5 in</td>
<td>928 in³</td>
</tr>
<tr>
<td><strong>Engine Cat</strong></td>
<td><strong>Engine Cat</strong></td>
</tr>
<tr>
<td>5.9 L</td>
<td>9.25 L</td>
</tr>
<tr>
<td><strong>L 928</strong></td>
<td><strong>L 1,105</strong></td>
</tr>
<tr>
<td><strong>C18</strong></td>
<td><strong>C15</strong></td>
</tr>
</tbody>
</table>

### Scrapper Bowl
- **Capacity Heaped**: 33.6 m³, 44 yd³
- **Rated Load**: 47,174 kg, 104,000 lb
- **Capacity Struck**: 24.5 m³, 32 yd³
- **Depth of Cut – max.**: 440 mm, 17 in
- **Width of Cut, to Router Bits**: 3846 mm, 12.7 in
- **Ground Clearance – max.**: 580 mm, 23 in
- **Cutting Edge – thickness**: 45 mm, 1.8 in
- **Hyd. Penetration Force – 657G**: 542 kN, 121,000 lb
- **Depth of Spread – max.**: 660 mm, 26 in
- **Apron Opening**: 2337 mm, 92 in
- **Apron Closure Force**: 176 kN, 39,200 lb

### Transmission
- **1 Forward**: 5.6 km/h, 3.5 mph
- **2 Forward**: 10.2 km/h, 6.3 mph
- **3 Forward**: 12.5 km/h, 7.8 mph
- **4 Forward**: 17 km/h, 10.6 mph
- **5 Forward**: 22.7 km/h, 14.1 mph
- **6 Forward**: 30.6 km/h, 19 mph
- **7 Forward**: 41.2 km/h, 25.6 mph
- **8 Forward**: 55.7 km/h, 34.6 mph
- **Reverse**: 9.8 km/h, 6.1 mph

### Hydraulics
- **Bowl Cylinder Bore**: 235 mm, 9.25 in
- **Bowl Cylinder Stroke**: 950 mm, 37.4 in
- **Apron Cylinder Bore**: 235 mm, 9.25 in
- **Apron Cylinder Stroke**: 760 mm, 29.92 in
- **Ejector Cylinder Bore**: 260 mm, 10.24 in
- **Ejector Cylinder Stroke**: 1946 mm, 76.61 in
- **Steering Circuit**: 378 L/min, 99.9 gal/min
- **Scraper Circuit**: 579 L/min, 153 gal/min
- **Cushion Hitch Circuit**: 48 L/min, 12.7 gal/min
- **Secondary Steering Circuit**: 243 L/min, 64.2 gal/min
- **Relief Valve**: 13 500 kPa, 1,959 psi
  - **Steering Circuit**: 13 780 kPa, 1,999 psi
- **Compensator Setting – Cushion Hitch Circuit**: 20 700 kPa, 3,002 psi
- **Steering circuit, Scraper implement circuit and Cushion hitch circuit measured at 2,000 rpm.**
- **Optional secondary steering circuit measured at 24 km/h (14.9 mph).**

### Steering
- **Width – 180° Turn**: 13.6 m, 44 ft 7 in
  - **Right**: 14.5 m, 47 ft 7 in
- **Steering Angle**: 90°
  - **Right**: 85°
- **Optional secondary steering system meets SAE J1511 (OCT 90) and ISO 5010 (1992) requirements.**
### Service Refill Capacities – Tractor

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crankcase</td>
<td>64 L</td>
<td>17 gal</td>
</tr>
<tr>
<td>Transmission</td>
<td>136 L</td>
<td>36 gal</td>
</tr>
<tr>
<td>Differential</td>
<td>136 L</td>
<td>36 gal</td>
</tr>
<tr>
<td>Final Drive (per side)</td>
<td>23 L</td>
<td>6 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>125 L</td>
<td>33 gal</td>
</tr>
<tr>
<td>Hydraulic Reservoir</td>
<td>303 L</td>
<td>80 gal</td>
</tr>
<tr>
<td>Wheel Coolant (each)</td>
<td>130 L</td>
<td>34.3 gal</td>
</tr>
<tr>
<td>Windshield Washer</td>
<td>2 L</td>
<td>0.5 gal</td>
</tr>
</tbody>
</table>

### Service Refill Capacities – Scraper

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>1597 L</td>
<td>421.9 gal</td>
</tr>
<tr>
<td>Crankcase</td>
<td>38 L</td>
<td>10 gal</td>
</tr>
<tr>
<td>Transmission</td>
<td>121 L</td>
<td>32 gal</td>
</tr>
<tr>
<td>Differential</td>
<td>168 L</td>
<td>44 gal</td>
</tr>
<tr>
<td>Final Drive (per side)</td>
<td>30 L</td>
<td>7.9 gal</td>
</tr>
<tr>
<td>Wheel Coolant (each)</td>
<td>130 L</td>
<td>34.3 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>89 L</td>
<td>24 gal</td>
</tr>
</tbody>
</table>

### Standards

**Cab**

- Cab meets OSHA and MSHA limits for operator and sound exposure with doors and windows closed (according to ANSI/SAE J1166 MAY 90). The operator sound pressure level is less than 85 dB(A) when measured per ISO 6394 or 86/662/EEC.
- Standard air conditioning system contains environmentally friendly R134a refrigerant.
### Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Width – overall machine</td>
<td>4344</td>
<td>171.02</td>
</tr>
<tr>
<td>2</td>
<td>Width – tractor</td>
<td>3601</td>
<td>141.77</td>
</tr>
<tr>
<td>3</td>
<td>Width – rear tire center lines</td>
<td>2813</td>
<td>110.75</td>
</tr>
<tr>
<td>4</td>
<td>Width – inside of bowl</td>
<td>3683</td>
<td>145</td>
</tr>
<tr>
<td>5</td>
<td>Width – outside bowl (shipping width)</td>
<td>3914</td>
<td>154</td>
</tr>
<tr>
<td>6</td>
<td>Height – overall shipping</td>
<td>4710</td>
<td>185.43</td>
</tr>
<tr>
<td>7</td>
<td>Height – top of cab</td>
<td>3712</td>
<td>146.14</td>
</tr>
<tr>
<td>8</td>
<td>Ground clearance, tractor</td>
<td>645</td>
<td>25.39</td>
</tr>
<tr>
<td>9</td>
<td>Front of tractor to front axle</td>
<td>3770</td>
<td>148.42</td>
</tr>
<tr>
<td>10</td>
<td>Axle to vertical hitch pin</td>
<td>608</td>
<td>23.94</td>
</tr>
<tr>
<td>11</td>
<td>Height – scraper blade maximum</td>
<td>680</td>
<td>26.77</td>
</tr>
<tr>
<td>12</td>
<td>Wheelbase</td>
<td>9956</td>
<td>391.97</td>
</tr>
<tr>
<td>13</td>
<td>Length – overall machine</td>
<td>16164</td>
<td>636.38</td>
</tr>
<tr>
<td>14</td>
<td>Rear axle to rear of machine</td>
<td>2438</td>
<td>95.98</td>
</tr>
<tr>
<td>15</td>
<td>Bail length – maximum (push-pull)</td>
<td>1836</td>
<td>72.28</td>
</tr>
</tbody>
</table>
## Weights

( approximate)

<table>
<thead>
<tr>
<th></th>
<th>657G Standard (kg)</th>
<th>657G Push-Pull (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Shipping, with ROPS cab and 10% fuel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tractor</td>
<td>59%</td>
<td>59%</td>
</tr>
<tr>
<td></td>
<td>39 788 kg</td>
<td>87 717 lb</td>
</tr>
<tr>
<td></td>
<td>42 472 kg</td>
<td>93 635 lb</td>
</tr>
<tr>
<td>Scraper</td>
<td>41%</td>
<td>41%</td>
</tr>
<tr>
<td></td>
<td>27 325 kg</td>
<td>60 242 lb</td>
</tr>
<tr>
<td></td>
<td>29 061 kg</td>
<td>64 068 lb</td>
</tr>
<tr>
<td><strong>Total 100%</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>67 113 kg</td>
<td>147 959 lb</td>
</tr>
<tr>
<td></td>
<td>71 533 kg</td>
<td>157 703 lb</td>
</tr>
<tr>
<td><strong>Operating empty, with ROPS cab, full fuel tanks and no operator</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front axle</td>
<td>58%</td>
<td>58%</td>
</tr>
<tr>
<td></td>
<td>39 881 kg</td>
<td>87 924 lb</td>
</tr>
<tr>
<td></td>
<td>42 566 kg</td>
<td>93 842 lb</td>
</tr>
<tr>
<td>Rear axle</td>
<td>42%</td>
<td>42%</td>
</tr>
<tr>
<td></td>
<td>28 503 kg</td>
<td>62 837 lb</td>
</tr>
<tr>
<td></td>
<td>30 238 kg</td>
<td>66 663 lb</td>
</tr>
<tr>
<td><strong>Total 100%</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>68 384 kg</td>
<td>150 761 lb</td>
</tr>
<tr>
<td></td>
<td>72 804 kg</td>
<td>160 505 lb</td>
</tr>
<tr>
<td><strong>Loaded, based on a rated load of 47 174 kg (104,000 lb)</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front axle</td>
<td>50%</td>
<td>51%</td>
</tr>
<tr>
<td></td>
<td>58 172 kg</td>
<td>128 246 lb</td>
</tr>
<tr>
<td></td>
<td>60 856 kg</td>
<td>134 165 lb</td>
</tr>
<tr>
<td>Rear axle</td>
<td>50%</td>
<td>49%</td>
</tr>
<tr>
<td></td>
<td>57 386 kg</td>
<td>126 515 lb</td>
</tr>
<tr>
<td></td>
<td>59 121 kg</td>
<td>130 340 lb</td>
</tr>
<tr>
<td><strong>Total 100%</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>115 558 kg</td>
<td>254 761 lb</td>
</tr>
<tr>
<td></td>
<td>119 978 kg</td>
<td>264 505 lb</td>
</tr>
</tbody>
</table>
**Gradeability/Speed/Rimpull**

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 9 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.

**Retarding**

To determine retarding performance: Read from gross weight down to the percent effective grade. (Effective grade equals actual percent grade minus 1% for each 9 kg/t (20 lb/ton) of rolling resistance). From this weight-effective grade point, read horizontally to the curve with the highest obtainable speed range, then down to maximum descent speed the retarder can properly handle.

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* at sea level

1 – 1st Gear Torque Converter Drive
2 – 2nd Gear Torque Converter Drive
3 – 3rd Gear Direct Drive
4 – 4th Gear Direct Drive
5 – 5th Gear Direct Drive
6 – 6th Gear Direct Drive
7 – 7th Gear Direct Drive
8 – 8th Gear Direct Drive

E – Empty 67,774 kg (149,417 lb)
L – Loaded 114,949 kg (253,420 lb)
Standard equipment may vary. Consult your Cat dealer for details.

ELECTRICAL
- Alarm, backup
- Alternator, 80 amp – tractor engine
- Alternator, 50 amp – scraper engine
- Batteries Tractor (4), 12V Maintenance Free, High Output
- Batteries Scraper (4), 12V Maintenance Free, High Output
- Electrical System, 24V
- Lighting System – Tractor
  - Directional Signals
  - Hazard Lights
  - Headlights, halogen with dimmer
  - Floodlight, cutting edge
  - Lights, side vision
- Lighting System – Scraper
  - Directional Signals
  - Hazard Lights
  - Stop/Tail
- Starting Receptacle – tractor and scraper engines

OPERATOR ENVIRONMENT
- Air Conditioner (includes heater and defroster)
- Automotive style fuse panel with fuse puller
- Cigarette Lighter and Ashtray
- Coat Hook
- Cup holder
- Diagnostic Connection Port (12V)
- Dome Courtesy Light
- Engine speed lock
- Fan defroster
- Gauge Group
  - Air Pressure
  - Converter/Retarder temperature
  - Electronic Monitoring System (EMS III)
  - Engine coolant temperature
  - Actual Transmission Gear Indicator
  - Fuel
  - Speedometer
  - Tachometer
  - Transmission gear indicator
- Horn
- Implement Control Joystick
- Rearview Mirrors

Radio Ready
- 2 radio openings, speakers, and 5-amp converter
- ROPS Cab with Sound Suppression and Pressurization
- Static Seatbelt
- Scraper Engine Controls
- Seat, Air Suspension, Caterpillar Comfort, cloth
- Steering Wheel – tilt and telescoping
- Storage Compartment
- Transmission Hold
- Windows – sliding side, swing out
- Windshield – laminated glass
- Windshield Wiper/Washer – front and rear
- Wrist Rest/Grab Handle

POWER TRAIN
Tractor
- Engine
  - Cat C18, ACERT™ Technology
  - 6-cylinder, turbocharged diesel
- Mechanically-actuated Electronic Unit Injection (MEUI)
- Air cleaner, dry-type with pre-cleaner
- Electric start, 24V
- Fan, suction
- Heater, engine coolant, 120V
- Radiator, NGMR (9 fins per inch)
- Ground level engine shutdown
- Guard, crankcase
- Guard, power train
- Muffler
- Starting Aid, ether
- Braking System
  - Parking/Primary/Secondary/Hydraulic retarder
  - Shields – brake
- Transmission
  - 8-speed Automatic Power shift with Electronic Control

Scraper
- Engine
  - Cat C15, ACERT Technology
  - 6-cylinder, turbocharged diesel
- Mechanically-actuated Electronic Unit Injection (MEUI)
- Electric start from the cab, 24V
- Fan, suction
- Radiator, NGMR (9 fins per inch)
- Ground level engine shutdown
- Heater, engine coolant, 120V
- Muffler
- Starting Aid, ether
- Thermo-shield, laminated
- Braking System
  - Parking/Primary/Secondary/Hydraulic retarder
  - Shields – brake
- Transmission
  - 8-speed Automatic Power shift with Electronic Control

OTHER STANDARD EQUIPMENT
Tractor
- Air dryer
- Auto ether aid
- Cushion hitch
- Extended Life Coolant, –36° C (–33° F)
- Fast Oil Change
- Fenders
- Guard, bottom
- Guard, crankcase
- Hydraulic retarder
- Locks, vandalism protection
- Product Link Ready
- Tires, 40.5/75 R39 radial
- Tow pins – front and rear

Scraper
- Extended Life Coolant, –36° C (–33° F)
- Engine coolant heater
- Fuel system, fast fill (meets EEC regulations)
- Fast Oil Change
- Fenders
- Hydraulic Retarder
- Locks, vandalism protection
- Overflow guard
- Tires, 40.5/75 R39 radial
Optional equipment may vary. Consult your Cat dealer for details.

<table>
<thead>
<tr>
<th>Optional Equipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Push-pull arrangement</td>
</tr>
<tr>
<td>Steering, secondary</td>
</tr>
<tr>
<td>Extended Life Coolant, –50° C (–58° F)</td>
</tr>
<tr>
<td>Lock, Steering</td>
</tr>
<tr>
<td>Push-Pull Arrangement with Rear Radiator Guard</td>
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<tr>
<td>Product Link</td>
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</tbody>
</table>