# 797B Mining Truck

## Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat® 3524B EUI</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross Power</td>
<td>2648 kW 3,550 hp</td>
</tr>
<tr>
<td>Flywheel Power</td>
<td>2513 kW 3,370 hp</td>
</tr>
</tbody>
</table>

## Weights

| Gross Machine Operating Weight | 623 690 kg 1,375,000 lb |

## Operating Specifications

| Nominal Payload Capacity | 345 tonnes 380 tons |
**797B Mining Truck**
*Engineered for performance, designed for comfort, built to last.*

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**Power Train - Engine**
The Cat 3524B High Displacement engine delivers the power and reliability necessary to perform in the most demanding applications. Designed for efficient operation, the 3524B offers excellent fuel efficiency, lower emissions, reduced engine noise and lower operating costs. *pg. 4*

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**Power Train - Transmission**
The Cat seven-speed power shift transmission and mechanical power train, matched with the electronic unit injection 3524B engine, provides consistent power and efficiency for peak power train performance. *pg. 5*

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**Engine/Power Train Integration**
The Cat Data Link electronically combines engine, transmission, brake and operational information to optimize overall truck performance. Stored diagnostic data can be accessed via the Electronic Technician (ET) to improve troubleshooting and reduce downtime. *pg. 6*

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**Monitoring System**
Vital Information Management System (VIMS) provides operators, service technicians and managers with vital machine health and payload data to keep the 797B performing at peak efficiency and top production levels while lowering cost-per-ton. *pg. 12*

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**Truck Body Systems**
A variety of Caterpillar designed and built truck bodies ensure optimal performance and reliability in tough mining applications. Cat dealers can help build an optimum hauling system to maximize truck payloads and extend body and truck wear life. *pg. 14*

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**Serviceability**
The 797B is designed for quick and easy servicing. Simplified service and maintenance features reduce downtime, allowing the machine to spend less time being serviced and more time on the haul roads. *pg. 16*

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**Top Performance.**
Developed specifically for high production mining applications, the 797B Mining Truck keeps material moving at high volume to lower your cost-per-ton.

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**Reliable, Durable Operation.**
Rugged construction and easy maintenance procedures ensure long life with low operating costs.
Caterpillar® Brake System
Cat oil-cooled, multiple disc brakes offer exceptional, fade-resistant braking and retarding for maximum performance and productivity in all haul road conditions. Integrated Braking Control combines retarding and traction control into one system for optimum braking efficiency. pg. 8

Structures
Caterpillar truck frames are built to optimize torsional load displacement. Mild steel provides flexibility, durability and resistance to impact loads. Castings and forgings in high stress areas provide exceptional strength and durability for long life. pg. 10

Operator’s Station
The ergonomic cab is designed for operator comfort and ease of operation to allow the operator to focus on production. Controls and gauges are positioned within easy reach for optimum efficiency and superior control all shift long. pg. 11

Customer Support
Caterpillar dealers provide unmatched product support, anywhere in the world. With industry-best parts availability and a wide range of maintenance and service options, Cat dealers have what it takes to keep your mining machines productive. pg. 17

Safety
Caterpillar sets the standard when it comes to safety in the design and manufacturing of heavy equipment for the mining industry. Safety is not an afterthought at Caterpillar, but an integral part of all machine and systems designs. pg. 18
**Power Train - Engine**

*The Cat 3524B High Displacement engine is built for power, reliability and efficiency for superior performance in the toughest applications.*

**Engine.** The Cat 3524B High Displacement EUI twin turbocharged and aftercooled diesel engine delivers high power and reliability in the world’s most demanding mining applications.

**Design.** The 3524B engine is a tandem unit consisting of two 3512B HD engine blocks, coupled to perform as a single engine in terms of operation, monitoring and control. The 24-cylinder, dual engine design offers superior performance in relation to its size, weight and speed.

**EPA Compliant.** The 3524B engine is compliant with U.S. Environmental Protection Agency Tier I emissions standards.

**Altitude Compensation.** Designed for maximum operating efficiencies, the 3524B begins derating at 2591 m (8,500 ft) altitude and derates at 1% kPa.

Optional High Altitude Arrangement (HAA) does not derate between 3048-4572 m (10,000-15,000 ft).

**High Torque Rise.** The 22% net torque rise provides unequalled lugging force during acceleration, on steep grades and in rough underfoot conditions. Torque rise effectively matches transmission shift points for maximum efficiency and fast cycle times.

**Enhanced Life.** High displacement, low rpm rating and conservative horsepower ratings mean more time on the haul roads and less time in the shop.

**Two-Piece Piston Design.** Two-piece articulated pistons with a deep bowl, low volume crevice design enhances combustion efficiency, improves fuel efficiency and lowers emissions.

**Electronic Control Module (ECM).** ECM utilizes advanced engine management software to monitor, control and protect the engine utilizing self-diagnosing electronic sensors. The computerized system senses operating conditions and power requirements and adjusts engine for peak performance and most efficient operation at all times.

**Separate Circuit Aftercooler.** Allows the aftercooler circuit to operate cooler than jacket water temperature for a denser air charge and greater combustion efficiency.

**Oil Renewal System.** Optional oil renewal system extends engine oil change intervals from 500 to 4000 hours or more to increase machine availability and reduce cost.

**Engine Protection.** Computerized system electronically protects the engine during cold starts, high altitude operation, air filter plugging, and high exhaust temperature.
**Power Train - Transmission**

*Cat mechanical power train delivers more power to the ground for greater productivity and lower operating costs.*

**Mechanical Power Train.** The Cat mechanical drive power train and power shift transmission provides unmatched operating efficiency and control on steep grades, in poor underfoot conditions, and on haul roads with high rolling resistance.

**Transmission.** The Cat seven-speed planetary power shift transmission is matched with the direct-injection 3524B diesel engine to deliver constant power over a wide range of operating speeds.

**Robust Design.** The 797B transmission is the largest power shift transmission for trucks in the world. Specially designed to handle the high torque and horsepower of the 3524B engine, the proven planetary power shift transmission is built tough for long life between overhauls.

**Transmission Chassis Control (TCC).** TCC uses electronically transferred engine rpm data to execute shifts at preset points for optimum performance, efficiency and clutch life.

**Lock-Up Torque Converter.** Combines maximum rimpull and cushioned shifting of torque converter drive with the efficiency and performance of direct drive. Engages at approximately 6 km/h (4 mph), delivering more power to the wheels.

**Final Drives.** Cat final drives work as a system with the planetary power shift transmission to deliver maximum power to the ground. Built to withstand the forces of high torque and impact loads, double reduction final drives provide high torque multiplication to further reduce drive train stress.

**Steering System.** Hydraulic steering control system is designed for exceptional smoothness and precise control. A separate circuit prevents cross contamination for long life.

**Supplemental Steering.** Supplemental steering system uses pressure accumulators and allows up to three 90 degree turns in case of engine failure.
Engine/Power Train Integration

Electronically combines critical power train components to work more intelligently and to optimize overall truck performance.

**Cat Data Link.** Electronically integrates machine computer systems to optimize overall power train performance, increase reliability and component life, and reduce operating costs.

**Controlled Throttle Shifting (CTS).** Regulates engine rpm during shifting to reduce power train stress and clutch wear by controlling engine speed, torque converter lock-up and transmission clutch engagement for smoother shifts and longer component life.

**Electronic Clutch Pressure Control (ECPC).** Works with Continuous Throttle Shifting to effectively manage the shift’s torque and provide exceptional shift smoothness.
**Directional Shift Management.**
Regulates engine speed during directional shifts to prevent damage caused by high speed directional changes.

**Neutral Coast Inhibitor.** Prevents transmission from shifting to neutral at speeds above 6.5 km/h (4 mph) to protect the transmission from operating with insufficient lubrication.

**Body-up Reverse Neutralizer.**
Automatically shifts the transmission to neutral if the hoist lever is activated while transmission is shifted in reverse.

**Body-up Shift Inhibitor.** Prevents the transmission from shifting above a pre-programmed gear without the body fully lowered.

**Overspeed Protection.** The transmission control electronically senses engine conditions and automatically up-shifts one gear to prevent overspeeding. If overspeeding occurs in top gear, the lock-up clutch is disengaged.

**Programmable Top Gear.** Transmission top gear maximum can be set using the ET service tool to help the operator maintain speed limits.

**Anti-Hunt Function.** Prevents gear hunting when operating near a shift point and minimizes shifts by not allowing an upshift or downshift immediately after a shift has occurred for increased component life.

**Downshift Inhibitor.** Prevents engine overspeeding by keeping the transmission from downshifting until engine speed reaches the downshift point.

**Electronic Technician (ET).** ET service tool provides service technicians with easy access to stored diagnostic data through the Cat Data Link to simplify problem diagnosis and increase machine availability.

**Diagnostic Capability.** Critical data from the electronic engine and transmission controls, including transmission shifting, engine speed and fuel consumption, provides service technicians with enhanced diagnostic capability to reduce downtime and operating costs.

**Integrated Braking Control (IBC).**
IBC integrates Automatic Retarder Control and Traction Control into one system for optimum performance and efficiency.
Integrated Braking System. The Cat oil-cooled braking system delivers reliable performance and control in the most extreme haul road conditions. The integrated system combines the service, secondary, parking brake and retarding functions in the same robust system for optimum braking efficiency.

Oil-Cooled Multiple Disc Brakes. Caterpillar four-wheel, forced oil-cooled, multiple disc service brakes are continuously cooled by water-to-oil heat exchangers for exceptional, non-fade braking and retarding performance.

Brake Design. Cat oil-cooled disc brakes are designed with large discs and plates for reliable, adjustment-free operation and performance. Brakes are completely enclosed and sealed to prevent contamination and reduce maintenance.

Long Life. An oil film prevents direct contact between the discs. This design absorbs the braking forces by shearing the oil molecules and carrying heat away to extend brake life.

Pistons. The Caterpillar two-piston design combines the service, secondary, parking brake and retarding functions in the same system. The primary piston hydraulically actuates both service and retarding functions. The secondary piston is spring-applied and held in the disengaged position by hydraulic pressure. If hydraulic system pressure drops below a specified level, the spring-applied secondary piston automatically applies the brakes.

Parking Brake. Oil-cooled, spring-applied, hydraulically released parking brake is applied to all four wheels for superior parking capability on all grades up to 18 percent.
Automatic Retarder Control (ARC). Electronically controls retarding on grade to maintain optimum engine rpm and oil cooling. Additional braking may be applied using the manual retarder or the brake pedal. ARC is deactivated when the operator applies the brakes or throttle.

**ARC Operating Efficiency Advantages.**

- **Faster Speeds.** ARC allows the operator to maintain optimum engine speeds for faster downhill hauls and greater productivity.

- **Superior Control.** Automatic brake modulation offers a smoother ride and better control in slippery conditions, allowing the operator to concentrate on driving.

- **Ease of Operation.** ARC increases operating ease, resulting in greater operator confidence with less fatigue.

- **Engine Overspeed Protection.** Automatically activates ARC when engine speed exceeds factory preset levels, regardless of operator inputs, to avoid potentially damaging engine overspeeds.

- **Four Corner Retarding.** Four corner retarding with 60/40 percent split (rear/front) in braking effort provides superior control in slippery conditions. Balanced front to rear brake torque provides exceptional braking performance and minimizes wheel lock-up, especially during retarding.

Traction Control System (TCS).

Electronically monitors and controls rear wheel slippage for greater traction and enhanced truck performance in poor underfoot conditions. If slippage exceeds a set limit, the oil-cooled disc brakes engage to slow the spinning wheel. Torque is then automatically transferred to the wheel with better traction.

Integrated Braking Control (IBC).

Combines Automatic Retarder Control (ARC) and Traction Control System (TCS) into one integrated brake control system for optimum efficiency, performance and reliability.

Cat Data Link.

All control modules communicate via the Cat Data Link and work together as an integrated system to maximize production efficiency and extend component life.

Fuel Efficiency.

The engine provides additional retarding by running against compression on downhill hauls. During retarding applications the engine ECM does not inject fuel into the cylinders for exceptional fuel economy.
Frame Design. The 797B frame incorporates a box-section design and castings. Materials and weld joints are matched to optimize the life of this structure. In the main structural areas of the frame, full wall thickness butt-weld joints are used to maximize life.

Steel Structures. Mild steel used throughout frame provides flexibility, durability and resistance to impact loads, even in cold climates, and allows for easy field repairs.

Castings. Castings have large radii with internal reinforcing ribs to dissipate stress in areas of high stress concentration. The nine major castings are machined for precise fit before being joined using a robotic weld technology that ensures full penetration welds.

Fabrications. The lower stressed areas at the front of the frame are made of welded fabrications.

Rollover Protective Structure (ROPS). Integral to the cab, the four-post ROPS structure is resiliently mounted to the frame to reduce vibration and noise levels.

Suspension System. Uses oil-over-nitrogen struts to dissipate haul road and loading impacts for longer frame life and a more comfortable ride.

Cylinders. Four independent self-contained, oil pneumatic, variable-rebound suspension cylinders are designed to absorb shocks in the most severe applications.

Front. Front cylinders with preset caster and camber are mounted to the frame and serve as steering kingpins for a tight turning radius with excellent maneuverability and low maintenance.

Rear. Rear cylinders allow axle oscillation and absorb bending and twisting stresses caused by uneven and rough haul roads rather than transmitting them to the main frame.

Rear Axle. Four-bar linkage connects the rear axle to the frame with maintenance free pins. The linkage directs the load onto the frame allowing it to be spread through the structure.

Structures
Rugged Cat structures are the backbone of the 797B mining truck’s durability.
Operator’s Station
Ergonomically designed for operator comfort, superior control and high productivity.

**Ergonomic Layout.** The 797B operator station is ergonomically designed for total machine control in a comfortable, productive and safe environment. All controls, levers switches and gauges are positioned to maximize productivity and minimize operator error.

**Quiet Cab.** Integral, sound-suppressed ROPS cab is resiliently mounted to the mainframe to isolate the operator from sound and vibration for a quiet, secure and comfortable ride.

**Viewing Area.** Designed for excellent all-around visibility and clear sight lines to the haul road, the large viewing area enables the operator to maneuver with confidence for high productivity.

1) **Air Suspension Seats.** Ergonomically designed, two fully adjustable air suspension seats with adjustable armrests provide optimal comfort for driver and trainer. Wide, retractable seat belts provide a secure, comfortable restraint.

2) **Hoist Lever.** Four-position electronic hoist system with fingertip control is mounted next to the operator’s seat for easy operation.

3) **Secondary Brake Pedal.** Conveniently located on the floor for easy operator control.

4) **Monitoring System.** VIMS features a high resolution display and easy-to-use operator input keypad for vital machine status information.

5) **Steering Column.** Sport wheel with tilt and telescopic steering provides a comfortable driving position and greater control.

6) **Transmission Console.** Ergonomic gear shift lever with backlit gear indicators optimize efficiency.

7) **Storage Compartments.** Two main storage compartments and door storage pockets provide an uncluttered work environment.

8) **Overhead Console.** Provides convenient access to rocker switches for lights: head, tail, parking, hazard, fog, backup, flood, and ladder lights.

9) **Operator Window.** Powered operator window offers simple operation and an unobstructed view.

10) **Operator Controls.** Easy to reach turn signal, high beam, intermittent windshield wiper and windshield washer controls are designed for optimum efficiency and comfort.

11) **Heating/Air Conditioning.** Electronically controlled four-speed fan and eleven vents deliver temperature-controlled air circulation for a comfortable working environment in any climate.

**Radio Ready.** Cab is prewired with power converter, speakers, wiring harness, antenna and provision for add-on communication systems.
Vital Information Management System (VIMS). Intelligent Caterpillar designed machine monitoring system provides critical machine health and payload data in real-time to keep the 797B performing at top production levels.

Integrated System Monitoring. Sensors located throughout the machine systems enable VIMS to quickly exchange and monitor information from all machine systems for efficient, high performance operation.

Advanced Diagnostics. VIMS simplifies troubleshooting, reduces downtime and lowers operating costs by identifying abnormal conditions before they cause extensive damage.

Data Access. Monitoring and diagnostic information is stored on-board until it can be downloaded for analysis. Data can be accessed through the message center, transmitted via optional radio or downloaded onto a computer for detailed analysis.

Machine Management. Service technicians or mine management can download data and generate reports for better machine management. Data can be used to improve effectiveness of scheduled maintenance programs, maximize component life, improve machine availability, and lower operating costs.

Gauge Cluster. Maintains a constant display of vital machine functions, including:
- engine coolant temperature
- brake oil temperature
- torque converter outlet temperature
- fuel level
**Speedometer/Tachometer Module.** Monitors three systems: engine speed, ground speed and actual gear.

**Message Center.** Displays messages requested by operator and advises operator of abnormal machine conditions.

**Keypad.** Provides operator or service technician immediate access to current machine information, gauge values and stored data through the message center display.

**Alert System.** Three-category warning system alerts operator of abnormal machine health conditions.
- **Category I.** Machine or system needs attention.
- **Category II.** Requires operator to evaluate and correct situation before continuing work.
- **Category III.** Immediate shutdown required to prevent serious damage to machine or system.

**Production Management.** True Weight Production Management provides accurate production reporting by utilizing suspension strut pressure differentials and advanced algorithm to weigh the truck after it moves away from the loading tool and shifts into second gear. Production data enhances truck and loading tool effectiveness and fleet productivity, and minimizes overloading to reduce downtime and lower operating and maintenance costs.

**VIMS-PC.** VIMS-PC, the off-board reporting software program, allows service personnel to download a complete record of machine health and productivity data to a laptop computer for diagnosis and analysis. Easy-to-use software enables service technicians and mine management to generate health and payload reports for more effective machine management.

**VIMS Supervisor.** Optional software allows mine management to easily manage and interpret VIMS data for optimum fleet management and productivity.

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**Payload Weight Distribution**

- **Recommended Payload Range**
- **Inefficient Payload Ranges**
- **With Production Management**
- **Without Production Management**
Cat Truck Bodies. Caterpillar offers two specific body styles and custom body options for the most efficient hauling solutions at the lowest cost-per-ton.

- Flat Floor (Standard)
- Mine Specific Design (MSD)

Body Selection. Selection of the right body depends on material and haul road conditions. The better the match of body to application, the greater the efficiency. Your Cat dealer can help you select the right body system for your site specific application.

Body/Chassis Integration. Caterpillar truck bodies are designed and matched with the integrated chassis system for optimum structural reliability, durability and long life.

Electronic Hoist Control. Provides the operator with better control of the load when dumping, including over-center load control and modulated control throughout the operating range. The automatic body snubbing feature reduces impact on the frame, hoist cylinders and operator.

Fast Hoist Cycle Times. Two-stage hoist cylinders provide fast dump cycle times of 25 seconds for raise and 18.5 seconds for lower.

Body Design. Cat truck bodies are designed for optimal strength, capacity and durability. Wear surfaces are equipped to handle even the toughest impact and abrasion over the long haul without diminishing capacity.

- Wide Ribs in body floor provide increased durability and impact support.
- Full-Length Stringers create strength and rigidity throughout the bed.
- Box Section Beams offer increased durability in the floor, sidewall, top rail, corner, and cab canopy areas.
- Extended Top Rails made of rolled steel guard against impact caused by the loading tool or falling material.
1) **Flat Floor Body.** The flat floor design with slight incline delivers excellent payload capacity, high dump clearances and smooth, controlled dumping.

- Flat floor design provides consistent wear characteristics on body tail.
- 12 degree forward body slope provides good load retention on better maintained haul roads.
- 400 Brinell steel on surfaces provides excellent wear.

2) **Mine Specific Design (MSD) Body.**
The MSD body is based on the flat floor design and is customized to maximize payload potential and minimize cost-per-ton. Each MSD body design begins with a detailed mine site profile to develop a body suitable for a mine’s individual needs.

**Custom Body Options.** Tail extensions, sideboards, tumblebars, rock boxes and rock shedders are available to maintain rated payload, reduce spillage, and improve hauling efficiencies.

- Sideboards are designed to maximize or attain gross machine weight.
- Tail extensions are used to help retain the rear portion of the pile and limit load spillage on haul roads, extending tire life.

**Body Liners.** A variety of liner options for high wear areas are available to save weight and help extend the body system’s life. Wear surfaces and liners are equipped to handle tough impact loads while resisting abrasion. Optional impact plates are designed to deliver long life in high impact areas.
Serviceability

Less time spent on maintenance means more time on the haul roads.

Servicing Ease. Easy access to daily service points simplifies servicing and reduces time spent on regular maintenance procedures. Enhanced serviceability and 500-hour service intervals are designed to increase machine availability and productivity.

Maintenance Platform. Provides access to engine, air filters and battery compartment.

In-Frame Access. Permits easy access to major components for easy servicing and removal.


Autolube. Automatic lubrication system reduces maintenance time by automatically lubricating necessary components on a regular basis.

Fast Fill Service Center. Wiggins fast fill service center features high speed fuel, coolant and oil exchange.

Oil Renewal System (ORS). Optional system extends oil change intervals and reduces waste oil handling by continuously burning oil from the engine oil pan through normal engine operation. Make-up oil must be continually added to compensate for oil burned.

Scheduled Oil Sampling. S•O•S™ sampling valves speed sampling and analysis reliability.

Pressure Test Points. Disconnect valves are conveniently located throughout the hydraulic systems for easy pressure testing.

Air Filters. Radial seal air filters are easy to change, reducing time required for air filter maintenance.

Sealed Electrical Connectors. Electrical connectors are sealed to lock out dust and moisture. Harnesses are braided for protection. Wires are color coded for easy diagnosis and repair.

Cylinder Heads. Individual cylinder heads are interchangeable for easy removal and visual inspection of internal parts.

On-Board Diagnostic Systems. VIMS continuously checks all critical machine functions and components, and helps locate faults quickly for faster repair. Electronic control system enables quick diagnosis of engine conditions and effective maintenance and repairs utilizing the Electronic Technician (ET) service tool.
Customer Support
Caterpillar dealers have what it takes to keep mining haul trucks productive.

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

Purchase. Look past initial price. Consider the financing options available, as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to lower equipment owning and operating costs over the long run.

Financing. Your dealer is an expert at arranging affordable financing options for all Caterpillar products.

Product Support. You will find nearly all parts at your dealer parts counter. Cat dealers use a worldwide computer network to locate in-stock parts to minimize machine downtime. Save money with Cat Reman parts. Receive the same warranty and reliability as new products at a savings of 40 to 70 percent.

Literature Support. Operation and maintenance manuals are easy to use, helping you get the full value of your equipment investment.

Customer Support Agreements. Cat dealers offer a variety of product support agreements, and work with customers to develop a plan that meets specific needs. Plans can cover the entire machine, including attachments, to help protect your investments.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training videotapes, literature and other ideas to help you increase productivity.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Technology Products. Cat dealers offer a range of advanced mining technology products for customers, dealers and operators designed to improve fleet efficiency, increase productivity and lower costs.

www.CAT.com. For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.CAT.com.
**Product Safety.** Caterpillar has been and continues to be proactive in developing mining machines that meet or exceed safety standards. Safety is an integral part of all machine and systems designs.

**SAE and ISO Standards.** The 797B is designed to national and international standards, and has been tested and self certified to applicable SAE and ISO standards.

**Integral ROPS Cab.** Resiliently mounted to the main frame to reduce vibration and sound, the integral ROPS structure is designed as an extension of the truck frame. The ROPS/FOPS structure provides “five sided protection” for the operator.

**Ladder/Secondary Egress.** A wide, stationary stairway with handrail on both sides allow three point contact access to and from the machine. A ladder on the left side of the machine permits secondary access or emergency egress.

**Brake Systems.** Four corner oil-cooled braking system provides excellent control in slippery conditions. The service brakes and retarding system are actuated by modulated hydraulic pressure, while secondary and parking brake functions are spring applied and hydraulic released. This system assures braking in the event of complete hydraulic failure.

**Steering System.** A twin double-acting cylinder steering system is designed to deliver precise control under various loading and underfoot conditions. The steering hydraulic system is separate from the main hydraulic system to prevent cross-contamination and overheating from other sources.

**Engine Shut Off Switches.** Located in the engine compartment and at ground level for an immediate shutdown.

**Electrical System Disconnect.** A disconnect switch, located outside the battery compartment, locks out the electrical system.

**Payload Policy.** Safety is integral to maintaining the highest productivity in mining machine operation. Caterpillar’s 10/10/20 Payload Policy assures that steering and braking systems have sufficient capacity to perform, even at 20% overload.

**Standard Safety Features.** Additional standard safety features include:

- Slip resistant surfaces
- Retractable, 75 mm (3 in) wide seat belts
- Wide-angle mirrors
- Body raised indicator
- Guard rails
- Reverse neutralizer when dumping
- Low interior sound level
### Engine

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<tr>
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<th>Value</th>
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<tr>
<td>Engine Model</td>
<td>Cat 3524B EUI</td>
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<td>Net Power - Cat</td>
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<tr>
<td>Net Power - ISO 9249</td>
<td>2513 kW 3,370 hp</td>
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<tr>
<td>Net Power - EEC 80/1269</td>
<td>2513 kW 3,370 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>170 mm 6.7 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>215 mm 8.5 in</td>
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<tr>
<td>Displacement</td>
<td>117.1 L 7,143 in²</td>
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</table>

### Transmission

<table>
<thead>
<tr>
<th>Gear</th>
<th>Forward 1</th>
<th>Forward 2</th>
<th>Forward 3</th>
<th>Forward 4</th>
<th>Forward 5</th>
<th>Forward 6</th>
<th>Forward 7</th>
<th>Reverse</th>
</tr>
</thead>
<tbody>
<tr>
<td>Speed</td>
<td>11.3 kph</td>
<td>15.2 kph</td>
<td>20.5 kph</td>
<td>27.7 kph</td>
<td>37.2 kph</td>
<td>50.3 kph</td>
<td>67.6 kph</td>
<td>12.9 kph</td>
</tr>
<tr>
<td>Speed</td>
<td>7 mph</td>
<td>9.5 mph</td>
<td>12.7 mph</td>
<td>17.2 mph</td>
<td>23.1 mph</td>
<td>31.2 mph</td>
<td>42 mph</td>
<td>8 mph</td>
</tr>
</tbody>
</table>

- Maximum travel speeds with standard 59/80R63 tires.
- Caterpillar seven-speed, electronically controlled, automatic power shift transmission.
- Reverse and Forward 1 gears are both torque converter driven with lock-up in Forward 1 through Forward 7.
- Each shift individually modulated for maximum smoothness.
- Controlled Throttle Shift and Directional Shift Management maximize shift smoothness and minimize drive line stress.
- Single-lever shift control provides automatic shifting in all gears.

### Final Drives

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Differential Ratio</td>
<td>1.265:1</td>
</tr>
<tr>
<td>Planetary Ratio</td>
<td>16.67:1</td>
</tr>
<tr>
<td>Total Reduction Ratio</td>
<td>21.09:1</td>
</tr>
</tbody>
</table>

- Double reduction, planetary, with full-floating axles.

### Brakes

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brake Surface - Front</td>
<td>132 258 cm² 20,500 in²</td>
</tr>
<tr>
<td>Brake Surface - Rear</td>
<td>198 387 cm² 30,750 in²</td>
</tr>
</tbody>
</table>

- Maximum operating weight up to 623 690 kg (1,375,000 lb).
- Service Brakes. Forced oil-cooled/variable capacity disc brakes with electro-hydraulic controls. Sealed and individually serviceable.
- Parking Brakes. Spring-applied, hydraulically released; toggle switch activated. Uses same disc brakes as service brakes.
- Secondary Brakes. Spring-applied, hydraulically released.
- Retarding System. Automatic Retarder Control standard. Applied to all wheels (40/60 split, front and rear). Hand operated lever provides modulated engagement of service brakes for retarding.
- Traction System. Traction Control System standard.
Body Hoists

<table>
<thead>
<tr>
<th>Pump Flow - High Idle</th>
<th>1225 L/min</th>
<th>323 gal/min</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Flow - Low Idle</td>
<td>1099 L/min</td>
<td>290 gal/min</td>
</tr>
<tr>
<td>Relief Valve Setting - Raise</td>
<td>23 787 kPa</td>
<td>3,450 psi</td>
</tr>
<tr>
<td>Body Raise Time - High Idle</td>
<td>25 Seconds</td>
<td></td>
</tr>
<tr>
<td>Body Lower Time - High Idle</td>
<td>18.5 Seconds</td>
<td></td>
</tr>
<tr>
<td>Body Power Down - High Idle</td>
<td>17.3 Seconds</td>
<td></td>
</tr>
<tr>
<td>Body Raise Time - Low Idle</td>
<td>25 Seconds</td>
<td></td>
</tr>
<tr>
<td>Body Lower Time - Low Idle</td>
<td>18.5 Seconds</td>
<td></td>
</tr>
<tr>
<td>Body Power Down - Low Idle</td>
<td>18.1 Seconds</td>
<td></td>
</tr>
</tbody>
</table>

- Twin, two-stage hydraulic cylinders, mounted outside main frame.
- Power raise in both stages; power down in first stage.
- Automatic body-lower modulation reduces impact on frame.

Weight Distributions - Approximate

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Axle - Empty</td>
<td>43.5 %</td>
</tr>
<tr>
<td>Rear Axle - Empty</td>
<td>56.5 %</td>
</tr>
<tr>
<td>Front Axle - Loaded</td>
<td>33.3 %</td>
</tr>
<tr>
<td>Rear Axle - Loaded</td>
<td>66.7 %</td>
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</table>

Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
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</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>6814 L</td>
</tr>
<tr>
<td>Cooling System</td>
<td>1194 L</td>
</tr>
<tr>
<td>Crankcase</td>
<td>417 L</td>
</tr>
<tr>
<td>Differentials and Final Drives</td>
<td>701 L</td>
</tr>
<tr>
<td>Steering Tank</td>
<td>235 L</td>
</tr>
<tr>
<td>Steering System (Includes Tank)</td>
<td>432 L</td>
</tr>
<tr>
<td>Brake/Hoist Hydraulic Tank</td>
<td>996 L</td>
</tr>
<tr>
<td>Brake/Hoist System (Includes Tank)</td>
<td>1842 L</td>
</tr>
<tr>
<td>Torque Converter/ Transmission Sump</td>
<td>190 L</td>
</tr>
<tr>
<td>Torque Converter/Transmission System (Includes Sump)</td>
<td>629 L</td>
</tr>
</tbody>
</table>

Torque Converter/Transmission System (Includes Sump) 629 L 166 gal

Tires

- Standard Tire 59/80R63

- Productive capabilities of the 797B 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


Sound

- Sound Standards ANSI/SAE J1166 MAY90, ANSI/SAE J88 JUN86

- The operator sound exposure Leq (equivalent sound pressure level) measured according to work cycle procedures specified in ANSI/SAE J1166 MAY90 is less than 76 dB(A) for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- 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.

Steering

- Steering Standards SAE J1511 OCT90, ISO 5010-1984

- Maximum operating weight up to 623 690 kg (1,375,000 lb).
- Separate hydraulic system prevents cross contamination.
- Secondary steering provided by bladder-type accumulator.
- Twin, double-acting cylinders.
- Front suspension cylinders serve as kingpins.
## Dimensions

All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Measurement</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Height to Top of ROPS - Full</td>
<td>6351 mm</td>
<td>250 in</td>
</tr>
<tr>
<td>1</td>
<td>Height to Top of ROPS - Empty</td>
<td>6549 mm</td>
<td>258 in</td>
</tr>
<tr>
<td>2</td>
<td>Overall Body Length</td>
<td>14 483 mm</td>
<td>569 in</td>
</tr>
<tr>
<td>3</td>
<td>Inside Body Length</td>
<td>9941 mm</td>
<td>391 in</td>
</tr>
<tr>
<td>4</td>
<td>Overall Length</td>
<td>14 530 mm</td>
<td>572 in</td>
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<tr>
<td>5</td>
<td>Wheelbase</td>
<td>7200 mm</td>
<td>283 in</td>
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<tr>
<td>6</td>
<td>Rear Axle to Tail</td>
<td>4016 mm</td>
<td>158 in</td>
</tr>
<tr>
<td>7</td>
<td>Ground Clearance - Full</td>
<td>869 mm</td>
<td>34 in</td>
</tr>
<tr>
<td>7</td>
<td>Ground Clearance - Empty</td>
<td>1059 mm</td>
<td>42 in</td>
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<tr>
<td>8</td>
<td>Dump Clearance</td>
<td>1885 mm</td>
<td>74 in</td>
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<tr>
<td>9</td>
<td>Loading Height - Empty</td>
<td>7083 mm</td>
<td>278 in</td>
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<tr>
<td>10</td>
<td>Inside Body Depth - Max</td>
<td>3350 mm</td>
<td>132 in</td>
</tr>
<tr>
<td>11</td>
<td>Overall Height - Body Raised</td>
<td>15 292 mm</td>
<td>602 in</td>
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<tr>
<td>12</td>
<td>Operating Width</td>
<td>9154 mm</td>
<td>360 in</td>
</tr>
<tr>
<td>13</td>
<td>Centerline Front Tire Width</td>
<td>6512 mm</td>
<td>256 in</td>
</tr>
<tr>
<td>14</td>
<td>Engine Guard Clearance - Full</td>
<td>919 mm</td>
<td>36 in</td>
</tr>
<tr>
<td>14</td>
<td>Engine Guard Clearance - Empty</td>
<td>1122 mm</td>
<td>44 in</td>
</tr>
<tr>
<td>15</td>
<td>Outside Body Width</td>
<td>8524 mm</td>
<td>336 in</td>
</tr>
<tr>
<td>16</td>
<td>Inside Body Width</td>
<td>8000 mm</td>
<td>315 in</td>
</tr>
<tr>
<td>17</td>
<td>Front Canopy Height</td>
<td>7584 mm</td>
<td>299 in</td>
</tr>
<tr>
<td>18</td>
<td>Rear Axle Clearance - Full</td>
<td>951 mm</td>
<td>37 in</td>
</tr>
<tr>
<td>18</td>
<td>Rear Axle Clearance - Empty</td>
<td>1046 mm</td>
<td>41 in</td>
</tr>
<tr>
<td>19</td>
<td>Centerline Rear Dual Tire Width</td>
<td>6233 mm</td>
<td>245 in</td>
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<tr>
<td>20</td>
<td>Overall Tire Width - Full</td>
<td>9761 mm</td>
<td>384 in</td>
</tr>
</tbody>
</table>

---

21 B Mining Truck specifications
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 59/80R63 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

**Gross Weight**

![Diagram showing typical field empty weight and gross machine operating weight, with various gears and effective grade percentages.](image-url)

**Continuous Grade Length**

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70

0 5 10 15 20 25 30 35 40 45

km/h mph
Retarding Performance

Gross Weight

Grade Distance — 600 m (2000 ft.)

Gross Machine Operating Weight
623 690 kg/1,375,000 lb

Typical Field Empty Weight

LE

5th Gear

6th Gear

7th Gear

2nd Gear

1st Gear

4th Gear

3rd Gear

5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70%

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 km/h

mph

0 200 400 600 800 1000 1200 1400 lb x 1000

kg x 1000

Grade Distance — 450 m (1500 ft.)

Gross Weight

Typical Field Empty Weight

Gross Machine Operating Weight
623 690 kg/1,375,000 lb

LE

5th Gear

6th Gear

7th Gear

2nd Gear

1st Gear

4th Gear

3rd Gear

5% 10% 15% 20% 25% 30% 35% 40% 45% 50% 55% 60% 65% 70%

0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 km/h

mph

0 200 400 600 800 1000 1200 1400 lb x 1000

kg x 1000

Grade Distance — 600 m (2000 ft.)
Retarding Performance

Gross Machine Operating Weight
623,690 kg/1,375,000 lb

Typical Field Empty Weight

Grade Distance — 900 m (3000 ft.)

Grade Distance — 1500 m (5000 ft.)
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.
Standard Equipment

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

Air Line Dryer
Alarm, Back-up
Alternator, 75 amp (2)
Antifreeze, Extended Life Coolant
Automatic Lubrication System (Lincoln)
Automatic Retarder Control
Auxiliary “Buddy” Dumping Quick Connect
Body Mounting Group
Brake System
  Brake Release Motor for Towing
  Oil-cooled, Multiple-disc, Front and Rear
  Parking
  Secondary, Emergency
Cab, ROPS, Insulated/Sound Suppressed
  Accessory Plug-in, 12V
Air Cleaner Service Indicator
Air Conditioner
Ashtray
Cigarette Lighter
Coat Hook
Dome Courtesy Light
Electric Window (Operator Only)
Glass, Tinted
Heater/defroster: 11 070 kCal (43,930 Btu)
Horn
Mirrors, Right and Left
Quad-Gauge Panel
  Brake Oil Temperature
  Coolant Temperature
  Fuel Level
  Steering Oil Level
Seat, Air Suspension
Seat, Passenger, Air Suspension with
  Storage Compartments
Seat Belts, 75 mm (3 in) wide retractable
Speedometer
Stairway Access
Steering, Automatic Supplemental
Steering Wheel, Tilt, Telescopic
Sun Visor
Tachometer, Electronic
Transmission Gear Indicator
VIMS Keypad
VIMS Message Center with Universal Gauge
Windshield Wiper and Washer
Center Mounted Rims (6) (44 × 63) (Used for 59/80R63 Tires)
Converter, 12V (2) Electrical
Driveline Operator Safety Guard
Electrical System, 24-volt 90 Amp at Low Idle

Engine - Caterpillar 3524B HD EUI Diesel Engine
  Air Cleaner w/Pre-cleaner (5)
  Automatic Starter Protection
  Crankcase Protection
  Elevated Low Idle Control
  Ether Starting Aid (Semi-automatic)
  Multi-point Oil Pressure Sensing
  Turbocharging (4)/Aftercooled
  Fast-fill Fuel System, Wiggins
Ground Level
  Battery Disconnect
  Engine Shutdown
  VIMS Dataport
High Speed Crankcase Oil Change (Wiggins)
Lighting System
  Back-up Lights (4)
  Engine Compartment Light
  Direction Signals (Front/Rear LED’s)
  Fog Lights (4)
  Front Stair Access and Service Deck Lights
  Headlights, With Dimmer
  Stop and Tail Lights (LED)
Reservoirs (Separate)
  Brake
  Converter
  Hoist/Steering/Transmission
  Rims, Center Mounted for 59/80R63 Tires
  Rock Ejectors
  Steering, Auxiliary Quick Connect for Towing
  Tie Down Eyes
  Tow Hooks, Front
  Tow Pin, Rear
Traction Control System
Transmission
  7-speed, Auto Powershift w/ECPC Controls
  Body Load Counter
  Body-up Reverse Neutralizer
  Body-up Shift Inhibitor
  Controlled Throttle Shifting
  Directional Shift Management
  Downshift/Reverse Shift Inhibitor
  Neutral Coast Inhibitor
  Neutral Start Switch
  Programmable Top Gear
  Vandalism Protection Locks
Vital Information Management System (VIDS) w/Payload
  Monitor and MAX Payload and Speed Manager
## Mandatory Equipment (with approximate changes in operating weight)

*Mandatory and optional equipment may vary. Consult your Caterpillar dealer for specifics.*

<table>
<thead>
<tr>
<th></th>
<th>kg</th>
<th>lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Battery</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>63</td>
<td>138</td>
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<tr>
<td>Heavy Duty</td>
<td>126</td>
<td>278</td>
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<tr>
<td>Sealed</td>
<td>168</td>
<td>371</td>
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<tr>
<td><strong>Bumper</strong></td>
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<tr>
<td>Standard</td>
<td>1865</td>
<td>4112</td>
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<td>4707</td>
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<td><strong>Exhaust</strong></td>
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<td></td>
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<tr>
<td>Side</td>
<td>61</td>
<td>133</td>
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<tr>
<td>Rear through Body</td>
<td>321</td>
<td>706</td>
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<tr>
<td>Handrail Guard</td>
<td>30</td>
<td>65</td>
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<tr>
<td>Cover Guard</td>
<td>30</td>
<td>65</td>
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<tr>
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<tr>
<td>1000 Gallons</td>
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<td>3099</td>
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<tr>
<td>1800 Gallons</td>
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<td>Isringhausen Air Suspension</td>
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<tr>
<td>Vane Ingersoll</td>
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<td>891</td>
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<td>TDI Turbine</td>
<td>353</td>
<td>778</td>
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<td>Ingersoll Turbine</td>
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<td>792</td>
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<tr>
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<tr>
<td>Passenger Door, Fixed</td>
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<tr>
<td>Passenger Door, Electric</td>
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<tr>
<td><strong>Body, Flat Floor</strong></td>
<td>46</td>
<td>294</td>
</tr>
<tr>
<td><strong>Body Liner</strong></td>
<td></td>
<td></td>
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<tr>
<td>Solid</td>
<td>3992</td>
<td>8800</td>
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<tr>
<td>Rock Box</td>
<td>1909</td>
<td>4210</td>
</tr>
<tr>
<td>Rear Grid</td>
<td>1769</td>
<td>3900</td>
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<tr>
<td><strong>Engine Prelube, Air Start</strong></td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td><strong>External Payload Display, Left, Right</strong></td>
<td>46</td>
<td>100</td>
</tr>
<tr>
<td><strong>Fire Extinguisher, Portable</strong></td>
<td>21</td>
<td>45</td>
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<tr>
<td><strong>Heater, Large Fuel Tank</strong></td>
<td>18</td>
<td>39</td>
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<td><strong>High Altitude Modification</strong></td>
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<td><strong>Oil Renewal System</strong></td>
<td></td>
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<tr>
<td><strong>Radiator Guard, Oil Sands</strong></td>
<td>514</td>
<td>1132</td>
</tr>
<tr>
<td><strong>Road Analysis Control (RAC)</strong></td>
<td>6</td>
<td>13</td>
</tr>
<tr>
<td><strong>Starting System, Cold Weather</strong></td>
<td>94</td>
<td>207</td>
</tr>
<tr>
<td><strong>Tire Rim</strong></td>
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<tr>
<td>Spare, 44-63, Standard</td>
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<td>6480</td>
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<tr>
<td>Spare, 44-63, Wedge</td>
<td>2951</td>
<td>6504</td>
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<td>71</td>
<td>156</td>
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<td><strong>Tires, 59/80R63 MX XDRC4</strong></td>
<td>31</td>
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<td>269</td>
<td>591</td>
</tr>
<tr>
<td>Wiggins Service Center</td>
<td>59</td>
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</tbody>
</table>

## Optional Equipment (with approximate changes in operating weight)

<table>
<thead>
<tr>
<th></th>
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<th>lb</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Body, Flat Floor</strong></td>
<td>46</td>
<td>294</td>
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<tr>
<td><strong>Body Liner</strong></td>
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<td>3900</td>
</tr>
<tr>
<td>Engine Prelube, Air Start</td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td>External Payload Display, Left, Right</td>
<td>46</td>
<td>100</td>
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<tr>
<td>Fire Extinguisher, Portable</td>
<td>21</td>
<td>45</td>
</tr>
<tr>
<td>Heater, Large Fuel Tank</td>
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<tr>
<td><strong>Oil Renewal System</strong></td>
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<tr>
<td><strong>Radiator Guard, Oil Sands</strong></td>
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<tr>
<td><strong>Road Analysis Control (RAC)</strong></td>
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<tr>
<td><strong>Starting System, Cold Weather</strong></td>
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<td>207</td>
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<tr>
<td><strong>Tire Rim</strong></td>
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<td>6480</td>
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<td><strong>Mounting Guard</strong></td>
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<tr>
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<tr>
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<td>130</td>
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</table>