365C FS
Front Shovel

Cat® C15 Diesel Engine with ACERT® Technology

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net Power (ISO 9249) at 1800 rpm</td>
<td>302 kW/411 hp</td>
</tr>
<tr>
<td>Operating Weight with</td>
<td>74 300 kg</td>
</tr>
<tr>
<td>Maximum Travel Speed</td>
<td>4.1 km/h</td>
</tr>
<tr>
<td>Maximum Drawbar Pull</td>
<td>462 kN</td>
</tr>
</tbody>
</table>
365C FS Front Shovel

*Designed for aggressive digging and fast cycle times, this high performance loading tool delivers the dependability you need to maximize your productivity.*

**Engine**
- ✔ The Cat® C15 engine has state-of-the-art ACERT® technology to meet emission regulations with exceptional performance capabilities, fuel efficiency and proven reliability. **pg. 4**

**Hydraulics**
- Proportional Priority Pressure Compensated (PPPC) system with state-of-the-art electronic control ensures hydraulic system efficiency and excellent productivity. **pg.**

**Front Linkage**
- Parallelogram linkage keeps the bucket parallel to the ground during material penetration and the master cylinder maintains a level bucket while raising the boom. **pg. 7**

**Undercarriage and Structures**
- ✔ The stable undercarriage supports the swing bearing and upper structure of the 365C FS. It must transmit the reaction forces of digging operations from the upper structure to the ground; therefore, the strength of the undercarriage is a major factor in machine durability. **pg. 5**

**Environmentally Responsible Design**
- ✔ Quieter operation, lower engine emissions, less fluid disposal and cleaner service can help you meet or exceed worldwide regulations and protect the environment. **pg. 4**

**Outstanding performance.**
*High level of sustained production, improved reliability and durability increase your productivity and lower your operating costs.*

✔ New feature
Operator Station
✓ An all-new cab provides improved visibility and comfort. The new monitor is a full-color graphical display with enhanced functionality to provide simple, comprehensive machine interface. pg. 8

Service and Maintenance
✓ Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics for increased productivity and reduced maintenance costs. pg. 10

Complete Customer Support
Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement. pg. 10
**Engine**

A combination of innovations working at the point of combustion, ACERT technology optimizes engine performance while meeting EU Stage II and Stage IIIA emission regulations.

**Diesel Engine.** The Caterpillar C15, with ACERT technology, is a 15.2 liter, six-cylinder, 302 kW (411 hp) engine with mechanically actuated electronic fuel injection (MEUI) and overhead camshaft. ACERT technology provides outstanding engine performance through advanced electronic control, precision fuel delivery, and refined air management.

**Fuel Consumption.** ADEM A4 controller uses sensors throughout the engine to manage engine load and performance. The ADEM A4 controller is the muscle behind engine responsiveness, self-diagnostics, controlling emissions, and fuel economy.

**Fuel System.** C15 engine uses a mechanically actuated electrically controlled unit injection (MEUI) system. The MEUI system combines high-pressure injection and electronic control in a single compact unit. The electronic unit injector is an integral part of the C15 fuel system. Computerized electronic control provides precise metering and timing of fuel injection.

**Cooling System.** High capacity, side-by-side cooling system allows operation in ambient temperatures up to 48°C. The Electric Power Control (EPC) controls the fan speed based on coolant temperature and hydraulic oil temperature for optimized cooling.

**Turbocharger.** The C15 engine uses a water-cooled, center-section waste gated turbocharger for improved performance.

**Emissions.** ACERT Technology is a differentiated technology that reduces emissions at the point of combustion. The technology capitalizes on proven Caterpillar leadership in three core engine systems: fuel, air and electronics.

**Cold Weather Starting Kit.** The kit consists of two additional batteries, heavy-duty harness, large capacity starting motor, and the ether starting aid. With this kit, the excavator has the capability to start at -32°C.

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**Environmentally Responsible Design**

*Caterpillar machines not only help you build a better world, they help maintain and preserve the fragile environment.*

**Outstanding performance.** Many features designed to provide outstanding performance which can mean more work done in a day, less fuel consumption and minimal impact on our environment.

**Low exhaust emissions.** The Cat C15 diesel engine utilizes unique ACERT technology to meet exhaust emissions regulations while assuring optimum fuel efficiency.

**Quiet operation.** The hydraulically driven cooling fan is thermostatically controlled, so the fan only runs at the speed necessary to maintain correct system operating temperatures. The result is cool quiet operation with less disturbance to the surrounding environment.

**Ozone protection.** To help preserve the earth’s ozone layer, the air conditioning unit uses only R-134a refrigerant which does not contain harmful chlorofluorocarbons (CFC’s). A combination of innovations working at the point of combustion, ACERT technology optimizes engine performance while meeting EU Stage II and Stage IIIA emission regulations.

**Fewer leaks and spills.** Engine oil and encapsulated hydraulic oil filters are positioned vertically and are easy to reach to minimize spillage. Service intervals are extended to reduce the times fluids are changed and handled. The new hydraulic oil fine filtration system attachment extends the service interval from 2000 to 5000 hours. Compatible with Cat HEES hydraulic bio-oil for ecologically sensitive applications. Finally, the new Cat Extended Life Coolant extends service (up to 6000 h) so there is less need for fluid disposal.
Undercarriage and Structures

Structural components are the backbone of the machine’s durability.

Undercarriage Components.
Large, Caterpillar designed and built undercarriage components offer heavy-duty performance and durability.

Sealed and Lubricated Rollers.
Track rollers, carrier rollers and idlers are sealed and lubricated for excellent service life.

Idler Guards and Track Guides.
Idler guards and center track guides used to maintain track alignment are standard. Optional two-piece full-length track guiding guards are available for additional protection on steep side slopes.

Travel Motor.
Two-speed axial piston hydraulic motors provide the drive power and automatic speed selection when the high-speed position is selected. This enables the machine to automatically change between computer-controlled high and low speeds depending on drawbar-pull requirements.

Final Drives.
The final drives are the three-stage reduction planetary type. This design results in a complete drive/brake unit that is compact and delivers excellent performance and reliability.

Track.
The 365C FS undercarriage comes standard with the new grease lubricated track called GLT4. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

Carbody Design.
The advanced carbody design stands up to the toughest applications.
- Modified X-shaped, box-section carbody provides excellent resistance to torsional bending.
- Upper structure weight and stresses are distributed evenly across the full length of the track roller frame.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

Track Roller Frames.
The track roller frame is made of thick steel plate that is bent into a U-shape and welded to the bottom plate to create a box structure. The box structure design provides increased rigidity and impact resistance.

Upper Frame.
Rugged main frame is designed for maximum durability and efficient use of materials.
- Robot welding for consistent, high-quality welds.
- Outer frame utilizes curved side rails, which are die-formed, for excellent uniformity and strength throughout the length.
- Box section channels improve upper frame rigidity under the cab.
- Boom tower and one piece main rails.
- New boom foot design transfers load more efficiently with less stress in critical areas.
- Reinforced lift cylinder and swing drive mounts increase structure durability in rock and quarry applications.

Variable Gauge Undercarriage.
The long variable gauge undercarriage is standard, providing a wide, stable base for operating, or a narrow gauge for reduced shipping width. The track roller frames are bolted to the carbody, and can be placed in two positions.
Hydraulics
Cat hydraulics deliver power and precise control to keep material moving.

PPPC Hydraulics.
Load sensing, Proportional Priority Pressure Compensation (PPPC) system, with Caterpillar-developed electronic actuation, provides high efficiency and excellent controllability.
- Cylinder speed is directly related to operator’s movement of joystick from feathering to full speed.
- Flow to cylinders during multi-functional operation is directly controlled by the operator and is not dependent on loads.
- Controller reduces pump output to minimum to save power when joysticks are in neutral position.

Main Pumps. Large, heavy-duty main pumps and a separate swing pump provide quick cycle times during multi-function operation.

Heavy Lift Feature. The heavy lift feature is standard and allows lifting of heavy objects with precision.

Biodegradable Hydraulic Oil.
Biodegradable hydraulic oil is available as an option.

Reverse Swing Damping Valve.
Swing dampening valves reduce swing wag and produce smooth swing stops.

Auxiliary Hydraulic Valve.
The auxiliary valve is standard. It is used with optional control arrangements to operate tools such as hammers and shears.
Front Linkage
The 365C FS delivers higher production and efficiency to all jobs.

Parallelogram Linkage. The Cat 365C L Front Shovel features parallelogram-type front linkage with a master cylinder. The parallelogram linkage automatically keeps the bucket parallel to the ground. This allows excellent penetration, fast loading and a smooth floor clean-up. The operator can concentrate on the boom and stick rather than bucket adjustments. The master cylinder circuit automatically maintains a level bucket while raising the boom. It aids in bucket positioning both above and below grade, eliminating constant adjustment during the work cycle. The master cylinder arrangement also uses bucket cylinder circuit pressure to increase the boom lifting force.

Boom. The boom is 4.6 m long and features a rigid structure with a number of steel castings. The cast steel portions are structured into a box to reduce the weight of the boom nose and boom foot.

Stick. The 365C L offers a 3.4 m long stick. The stick nose and stick foot are made of cast steel. The middle portion has a box structure fabricated with steel plates. The stick cylinder-mounting bracket is reinforced from the inside.

Bottom Dump Bucket. The recommended bucket for the 365C FS is a bottom dump bucket. It is designed for strength, performance and long service life.

Linkage Pin. All pins used in the 365C FS front linkage have thick chrome plating, giving them high wear and corrosion resistance. The diameter of each pin is made as large as possible to smoothly distribute the shear and bending loads associated with the digging and lifting forces.
Cab Design. The workstation has been designed to be spacious, quiet and comfortable for the operator, assuring high productivity throughout the entire workday. Switches are conveniently located for easy access. The new monitor is located to provide excellent visibility and access.

Seat. The seat provides a variety of adjustments, including fore/aft, height and weight to suit the operator. Also included are adjustable armrests and a retractable seat belt. For additional comfort, a new heated air suspension seat is available as an attachment.

Skylight. An enlarged skylight with sunshade provides excellent visibility and good ventilation.

Hydraulic Activation Control Lever. The hydraulic activation control lever deactivates hydraulic functions during engine start-up, and prevents unintentional machine operation.

Climate Control. Positive filtered ventilation with a pressurized cab comes standard. Fresh air or re-circulated air can be selected with a switch on the left console.

Windows. To maximize visibility, all glass is affixed directly to the cab eliminating the use of window frames. The fixed front windshield is made of high impact resistant laminated glass.

Wipers. Parallelogram wiper, including a washer nozzle is mounted below the cab windshield, optimizes the operator’s viewing area and offers continuous and intermittent modes.

Monitor. The compact, full-color, graphical display monitor is new. The monitor has functions to display machine, maintenance, diagnostic and prognostic information. The angle of the monitor can be adjusted to face the operator and prevent sun glare.

Cab Exterior. The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance of fatigue and vibration. FOGS are bolted directly to the cab.

Cab Mounts. The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort.

Cab Riser. To provide excellent forward visibility for truck loading and other applications, 700 mm cab riser is standard on the 365C L Front Shovel.

Operator Station

Designed for simple, easy operation and comfort, the 365C FS allows the operator to focus on production.
Electronic Control System
Manages the engine and hydraulics for maximum performance.

Monitor Display Screen. The monitor is a full color 400x234 pixels Liquid Crystal Display (LCD) graphic display. The Master Caution Lamp blinks ON and OFF when one of the critical conditions below occurs:
- Engine oil pressure low
- Coolant temperature high
- Hydraulic oil temperature high
Under normal conditions or the default condition, the monitor display screen is divided into four areas; clock and throttle dial, gauge, event display and multi-information display.

Clock and Throttle Dial Display. The clock, throttle dial and gas-station icon with green color are displayed in this area.

Gauge Display. Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.

Event Display. Machine event information is displayed in this area along with the icon and language.

Multi-information Display. This area is reserved for displaying information that is convenient for the operator. The “CAT” logo mark is displayed when no information is available to display.

Operator Gain/Response. This is used to suit the operators preference or application.
- Quicker, for fast response and more production
- Slower, for more precision
- Three preset settings with 21 available

Electronic Joysticks. Electronic joysticks provide features not possible with hydraulic pilot valves:
- Eliminate pilot lines in cab for quieter operation
- Adjustable gain/response

Consoles. Redesigned consoles feature a simple, functional design to reduce operator fatigue, ease of switch operation and excellent visibility. Both consoles have attached armrests and allow the height of the armrests to be adjusted.

Standard Cab Equipment.
To enhance operator comfort and productivity, the cab includes a lighter, drink holder, coat hook, service meter, literature holder, magazine rack and storage compartment. The cab can be equipped with optional 12 volt converter and up to two 12V-7 amp electrical sockets to provide additional electrical resources.

Machine Security. An optional Machine Security System (MSS) is available from the factory. MSS uses a special Caterpillar key with an embedded electronic chip for controlling unauthorized machine operation.

Product Link. “Product Link Ready” from the factory.
Service and Maintenance

Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics.

Hydraulic Capsule Filters. The return filters or capsule filters for the hydraulic system are located beside the hydraulic tank. The filter elements are removable without spilling hydraulic oil.

Service Points. Service points are centrally located with easy access to facilitate routine maintenance.

Pilot Hydraulic System Filter. Pilot hydraulic system filter keeps contaminants from the pilot system and is located in the pump compartment.

Remote Greasing Block. A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations.

Radial Seal Cleaner. Radial seal main air cleaner with precleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element.

Fuel-Water Separator. The water separator removes water from fuel, even when under pressure, and water level can be monitored in the cab.

Service and Maintenance

Service Intervals. Service intervals are extended to reduce maintenance costs. Engine oil, oil filter and fuel filters at 500 hours.

Customer Support Agreements.

Cat dealers offer a variety of product support agreements, and work with customers to develop a plan the best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer’s investment.

Operation. Improving operating techniques can boost your profits. Your cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can save money with Cat remanufactured components.

Maintenance Services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling, Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

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

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Machine Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments and operating hours? What production is needed? Your Cat dealer can provide recommendations.

Purchase. 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 yield lower equipment owning and operating costs over the long run.

Oil Sample and Pressure Ports. Oil sample and pressure ports provide easy checking of machine condition and are standard on every machine.

Hydraulic Capsule Filters. The return filters or capsule filters for the hydraulic system are located beside the hydraulic tank. The filter elements are removable without spilling hydraulic oil.

Service Points. Service points are centrally located with easy access to facilitate routine maintenance.

Pilot Hydraulic System Filter. Pilot hydraulic system filter keeps contaminants from the pilot system and is located in the pump compartment.

Remote Greasing Block. A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations.

Radial Seal Cleaner. Radial seal main air cleaner with precleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element.

Fuel-Water Separator. The water separator removes water from fuel, even when under pressure, and water level can be monitored in the cab.

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**Engine**

Caterpillar C15 ACERT Technology

Net Power at 1800 rpm
- ISO 9249: 302 kW/411 hp
- EEC 80/1269: 302 kW/411 hp

<table>
<thead>
<tr>
<th>Bore</th>
<th>137 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stroke</td>
<td>171 mm</td>
</tr>
<tr>
<td>Displacement</td>
<td>15.2 liters</td>
</tr>
</tbody>
</table>

- All engine horsepower (hp) are metric including front page.
- The C15 engine meets Stage IIIA emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating required below 2300 m altitude.

**Brakes**

Meets the standard ISO 10265:1998

**Hydraulic System**

**Main System**
- Maximum flow: 2 x 400 l/min

**Swing System**
- Maximum flow: 360 l/min

**Maximum pressure**
- Normal: 320 bar
- Heavy lift: 350 bar
- Travel: 350 bar
- Swing: 280 bar

**Pilot System**
- Maximum flow: 90 l/min
- Maximum pressure: 41 bar

**Boom Cylinder**
- Bore: 190 mm
- Stroke: 1792 mm

**Stick Cylinder**
- Bore: 200 mm
- Stroke: 2118 mm

**Master Cylinder**
- Bore: 152 mm
- Stroke: 1953 mm

**Sound**

**Operator Sound**
- The operator sound level measured according to the procedures specified in ISO 6394:1998 is 76 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the 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 noisy environment.

**Exterior Sound**
- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 107 dB(A).

**Drive**

Maximum Travel Speed: 4.1 km/h
Maximum Drawbar Pull: 462 kN

**Track**

Swing Speed: 6.5 rpm
Swing Torque: 204.5 kNm

Swing Mechanism

Swing Speed: 6.5 rpm
Swing Torque: 204.5 kNm

**Service Refill Capacities**

<table>
<thead>
<tr>
<th>Component</th>
<th>Liters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>800</td>
</tr>
<tr>
<td>Cooling System</td>
<td>95</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>54</td>
</tr>
<tr>
<td>Swing Drive (each)</td>
<td>12</td>
</tr>
<tr>
<td>Final Drive (each)</td>
<td>15</td>
</tr>
<tr>
<td>Hydraulic system</td>
<td>670</td>
</tr>
<tr>
<td>(including tank)</td>
<td></td>
</tr>
<tr>
<td>Hydraulic tank</td>
<td>310</td>
</tr>
</tbody>
</table>
Dimensions
All dimensions are approximate.

### Dimensions

**Boom**  4600

**Stick**  3480

**A** Boom top height  4310

**Cab top height**
- with FOPS  4570
- without FOPS  4380

**B** Engine hood height  3250

**C** Overall width (retracted)
- 650 mm shoes  3400
- 750 mm shoes  3500

**C** Overall width (extended)
- 650 mm shoes  3900
- 750 mm shoes  4000

**D** Upperstructure width  3450

**E** Tail swing radius  4020

**F** Minimum ground clearance  840

**G** Overall length  13 260

**H** Track length  5860

**J** Track gauge
- Extended position  3250
- Retracted position  2750

**K** Counterweight clearance  1540

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**Buckets for K Series™ Tooth System**

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Width</th>
<th>Tip Radius</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>m³</strong></td>
<td><strong>mm</strong></td>
<td><strong>mm</strong></td>
<td><strong>kg</strong></td>
</tr>
<tr>
<td><strong>1</strong> Rock</td>
<td>4.0</td>
<td>2132</td>
<td>7520</td>
</tr>
<tr>
<td>*4.5</td>
<td>2132</td>
<td>2550</td>
<td>7730</td>
</tr>
<tr>
<td><strong>2</strong> Heavy Duty Rock (with segments)</td>
<td>4.0</td>
<td>2132</td>
<td>7770</td>
</tr>
</tbody>
</table>

* Maximum material density: 1500 kg/m³
Working Ranges

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stick Length</td>
<td>3480 mm</td>
</tr>
<tr>
<td>Boom Length</td>
<td>4600 mm</td>
</tr>
<tr>
<td>Rock Bucket</td>
<td>4.0 m³</td>
</tr>
<tr>
<td>A Maximum Reach</td>
<td>9470 mm</td>
</tr>
<tr>
<td>B Maximum Reach at Ground Level</td>
<td>9120 mm</td>
</tr>
<tr>
<td>C Maximum Level Crowd Distance</td>
<td>3800 mm</td>
</tr>
<tr>
<td>D Maximum Digging Depth</td>
<td>2480 mm</td>
</tr>
<tr>
<td>E Maximum Digging Height</td>
<td>10 960 mm</td>
</tr>
<tr>
<td>F Maximum Dump Height</td>
<td>7080 mm</td>
</tr>
<tr>
<td>G Reach at Maximum Dump Height</td>
<td>6260 mm</td>
</tr>
<tr>
<td>Bucket Breakout Force* (ISO)</td>
<td>500 kN</td>
</tr>
<tr>
<td>Stick Breakout Force* (ISO)</td>
<td>369 kN</td>
</tr>
</tbody>
</table>

* Forces shown are for 4.0 m³ rock bucket
Standard Equipment
Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical
Alternator – 75 amp
Lights: cab interior
Signal/warning horn

Engine/Powertrain
Automatic engine speed control
Automatic swing parking brake
Automatic travel parking brakes
Caterpillar C15 ATAAC with ACERT technology,
EU Stage IIIA emission compliant,
altitude capability to 2300 m
High ambient cooling, 48°C capability
Side-by-side cooling system with separately mounted AC condenser and variable speed fan
Two speed travel
Water separator, with level indicator, for fuel line

Guards
Heavy duty bottom guards on upper frame
Heavy duty swivel guard on undercarriage
Heavy duty travel motor guards on undercarriage
Quarry guards (cylinders, swing motor and drive)

Operator Station
Air conditioner, heater and defroster with automatic climate control
Ashtray and 24 volt lighter
Beverage/cup holder
Coat hook
Console mounted electronic type joysticks with adjustable gain and response
Floor mat
Instrument panel and gauges with full color graphical display
Literature compartment
Neutral lever (lock out) for all controls
Positive filtered ventilation
Pressurized cab
Retractable seat belt, 51 mm
Stationary skylight (polycarbonate)
Sunshade for windshield and skylight
Travel control pedals with removable hand levers
Windshield wipers and washers (upper and lower)
High resistant windshield FOGS
Thumb wheel joysticks
Cab riser, 700 mm

Undercarriage
Double grouser shoes – 650 mm, heavy duty, clipped
Grease lubricated track
Hydraulic track adjusters
Idler and center section track guards
Long, variable gauge
Steps – four

Other Standard Equipment
Auxiliary hydraulic valve for hydro-mechanical tools
Caterpillar one key security system with locks for doors, cab and fuel cap
Catwalks – left side and right side
Cross-roller type swing bearing
Drive for auxiliary pump
Hand control pattern changer
Heavy Lift mode
Mirrors – left and right
S•O•SS™ quick sampling valves for engine oil and hydraulic oil
Steel firewall between engine and hydraulic pumps
Wiring provisions for Product Link, Auto-lube system and lighted beacon
Boom, 4600 mm
Stick, 3480 mm
Master cylinder
## Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

<table>
<thead>
<tr>
<th>Track</th>
<th>Full length Track Guiding Guards</th>
<th>Operator Compartment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Double grouser, heavy duty</td>
<td></td>
<td>Lunch box storage with lid</td>
</tr>
<tr>
<td>– 610 mm, clipped</td>
<td></td>
<td>Machine security system with programmable keys</td>
</tr>
<tr>
<td>– 750 mm</td>
<td></td>
<td>Radio</td>
</tr>
<tr>
<td>– 900 mm</td>
<td></td>
<td>AM/FM radio mounted in right hand console with antenna and two speakers</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Radio ready mounting at rear location including 24V to 12V converter speakers, antenna</td>
</tr>
<tr>
<td></td>
<td><strong>Miscellaneous Options</strong></td>
<td>Seat</td>
</tr>
<tr>
<td></td>
<td>Converters, 7 amp-12V</td>
<td>Adjustable high-back seat with mechanical suspension</td>
</tr>
<tr>
<td></td>
<td>– One</td>
<td>Adjustable high-back seat with air suspension</td>
</tr>
<tr>
<td></td>
<td>– Two</td>
<td>Adjustable high-back heated seat with air suspension</td>
</tr>
<tr>
<td></td>
<td>Electric refueling pump</td>
<td>Straight travel pedal</td>
</tr>
<tr>
<td></td>
<td>Fine filtration filter</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Jump start terminals</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reversible cooling fan including</td>
<td></td>
</tr>
<tr>
<td></td>
<td>protective screen</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Starting aid for cold weather with ether</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Travel alarm with cut off switch</td>
<td></td>
</tr>
</tbody>
</table>

Optional equipment may vary. Consult your Caterpillar dealer for specifics.