Available in Front Shovel and Backhoe configuration, the new Caterpillar® 5130B is primarily matched to the Cat® 777D truck, but can also be teamed with the 773D or 775D and other trucks in the 65 to 100 ton size class. This makes for efficient loading and hauling systems for mining, quarrying and heavy construction applications.

Operating weights (approximate)

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Weight (kg)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Shovel (FS)</td>
<td>181,000</td>
<td>399,000</td>
</tr>
<tr>
<td>Backhoe (ME)</td>
<td>182,000</td>
<td>401,000</td>
</tr>
</tbody>
</table>

Bucket capacities

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Capacity (m³)</th>
<th>Capacity (yd³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Shovel (FS)</td>
<td>9.0 to 11.0</td>
<td>11.0 to 14.5</td>
</tr>
<tr>
<td>Backhoe (ME)</td>
<td>8.5 to 10.5</td>
<td>10.5 to 14.0</td>
</tr>
</tbody>
</table>

Cat 3508B Engine (Gross)

<table>
<thead>
<tr>
<th>Power</th>
<th>kW</th>
<th>hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flywheel power</td>
<td>597</td>
<td>800</td>
</tr>
</tbody>
</table>
5130B Hydraulic Shovel/Backhoe

Top performance and rugged durability combine to maximize your productivity.

**Structures**
Extensive use of castings in high-stress areas and box section design provide a rugged, durable machine. Use of one-piece floating pins in main front structure joints helps reduce wear and increase strength. Thermal stress relief of front structure components eliminates residual stresses. **pg. 7**

**Power Train**
The 5130B is powered by a single Cat 3508B engine with a high displacement and conservative hp ratings for lower maintenance and operating costs. The 777D truck has field proven the 3508B engine design in the most demanding mining applications. **pg. 6**

**Hydraulics**
Powerful Cat hydraulics provide high break-out and crowd force to maximize bucket loads. The Cat Proportional Priority Pressure Compensating (PPPC) system allows smooth, efficient operation. **pg. 4-5**
Modular Design
The eight modules that make up the 5130B are easily shipped and assembled. Components are located with serviceability and maintenance in mind. pg. 12

Operator’s Station
Roomy, quiet cab has excellent sightlines to the work area to help keep operator fatigue low and production up throughout the entire shift. pg. 9

Undercarriage
Cat designed, excavator-type undercarriage is stable, durable and maintenance free. pg. 8

Buckets and Ground Engaging Tools
The 5130B’s aggressive curved-floor bucket design, efficient linkage geometry and high crowd and breakout forces provide superior bucket fill factors. A wide selection of front shovel buckets, backhoe buckets and ground engaging tools allows precise machine to application match. pg. 11

Vital Information Management System
The latest in total machine monitoring, (VIMS) monitors vital machine functions. It helps reduce downtime by keeping the operator informed of current operating conditions and allowing service personnel access to logged data and machine faults. pg. 10
Hydraulics System

Caterpillar hydraulics deliver the power and control needed to keep material moving at high volume.

Four variable-displacement, piston pumps act together to power the front structure and travel systems. The swing function is powered by its own variable-displacement piston pump.

- Main pumps are each rated at a conservative 375 lpm (99 gpm) for optimum service life.
- The swing pump is rated at 450 lpm (119 gpm).
- Other, smaller pumps power the cooling fan drives, pump drive cooler, pilot system, automatic track tensioning system, and A/C system.
- All pumps are serviced through Cat dealers.
- A bulkhead separates the engine and pump compartments.

The modular design of the 5130B provides unique advantages in hydraulic system design and serviceability.

- The longitudinal mounting of the 3508B engine and the low placement of the hydraulic pumps eliminate the need for a pressurized hydraulic tank.
- Walk-around, lighted access to all hydraulic system components allows easy serviceability and quick daily maintenance checks.

Hydraulic system filtration is provided by 200 micron screens in the pump discharge lines and 10 micron filters in the return lines and case drain line.

High breakout and crowd forces.
The 5130B Front Shovel and Backhoe provide maximum forces at the bucket cutting edge for improved material penetration and bucket fill factors.

- The front shovel has a breakout force of 715 kN (161,000 lbs) and a crowd force of 770 kN (173,000 lbs).
- The mass excavator arrangement has a breakout force of 672 kN (151,100 lbs) and a stick force of 624 kN (140,300 lbs), the highest in its size class.

The modular design of the 5130B provides unique advantages in hydraulic system design and serviceability.

- The longitudinal mounting of the 3508B engine and the low placement of the hydraulic pumps eliminate the need for a pressurized hydraulic tank.
- Walk-around, lighted access to all hydraulic system components allows easy serviceability and quick daily maintenance checks.

Hydraulic system filtration is provided by 200 micron screens in the pump discharge lines and 10 micron filters in the return lines and case drain line.
Large-bore cylinders ensure efficient load handling.

Cat's XT hydraulic hose is exceptionally strong and flexible. Reusable couplings prolong hose assembly life.

S•O•S sampling valves are conveniently located on the return rail on the right side of the hydraulic tank.

Valve system only circulates fluid when called for by the operator. There is no unneeded fluid circulation. This provides increased fuel efficiency and reduced heat in the hydraulic system.

Automatic flow proportioning adjusts pump output to the hydraulic circuits based on the flow requirements of the task at hand. When flow is required by more than one function at a time (such as boom up and stick out), the valves determine the flow required for each function and have pumps supply that amount. This feature allows smooth, precise, multi-function operation.

The swing circuit is controlled by an open-center valve to assure quick, full-powered response.

Electronically controlled pumps. A Caterpillar designed microprocessor regulates hydraulic pump output. When hydraulic demand goes beyond a prescribed threshold, the load sensing control destrokes the pumps to prevent excessive engine lugging.

Eliminates the need to maintain a constant, costly, reserve of engine power to prevent excessive engine lugging.

Also allows hydraulic pumps to use full engine power for precise front structure or function response.

Hydraulic system cooling is provided by a single, conventional core radiator dedicated to the hydraulic circuit.

The variable-speed fan is temperature controlled for greater fuel efficiency.

Extra-large cooling capacity allows operation in ambient temperatures of up to 50°C (122°F).
The Caterpillar electronic control system provides superior integration of the engine and other machine systems. All systems are designed specifically for use in mining applications.

The 3508B Electronic Unit Injection (EUI) engine features:
- Excellent reliability with the latest in protection programs.
- Protection during cold weather starts.
- Excellent fuel efficiency.
- Continuous monitoring of critical engine functions.
- Diagnostic data is accessible with a single, electronic service tool.
- Automatic altitude compensation above 3050 m (10,000 ft).
- Integrated ether injection.
- Cold cylinder cutout.

Automatic Engine Speed Control (AESC) reduces fuel consumption and noise by reducing the engine speed from 1750 to 1350 rpm if the hydraulic controls are not actuated for four seconds.

Engine cooling system reduces fuel consumption using a hydraulic driven variable-speed fan. Fan operates at a minimum speed of 400 rpm until increased temperatures actuate a solenoid and valve to increase fan speed as needed.

Increased time between oil changes, up 100 percent, from 250 hours to 500 hours between changes.

Cold weather starting can be improved with EUI’s cold weather starting mode. This mode retards engine timing until the engine is warmed to the correct temperature.

High displacement, low rpm rating and conservative hp ratings mean longer service hours with less downtime for maintenance and repair.

Two-piece piston design with aluminum skirt and steel crown pivot at the wrist pin provides added flexibility for reduced piston scuffing.

S•O•S sampling valve located near oil filter base speeds sampling.
**Structures**

The 5130B structural components are the backbone of the machines durability.

Heavy-duty castings are used extensively in high-stress areas for excellent, long-term structural durability.

**Castings are used in:**
- Front end of the swing frame (which is a single, massive casting)
- Counterweight mounts
- All boom and stick pin mounts
- Carbody
- Final drive mounts

Rugged box section construction is used in key structures to provide unsurpassed strength while eliminating excess weight. Box section construction is used in the booms, sticks, carbody and roller frames.

**High digging forces** are a result of the efficient front linkage. Rod-ported bucket tilt cylinders eliminate external return lines, improving seal and rod life.

One piece floating pins are used at swing frame to boom, boom to stick and stick to bucket joints for extra strength and life.

Front structure components are thermally stress relieved to reduce residual stresses from the welding process, increasing structure life.
A wide track gauge offers the stability needed for top production.

The moving undercarriage is a no-maintenance system that includes some of the same features found on the dependable D11-size track. Cat sealed and greased track eliminates the need for grease packing or shimming.

Track roller frames hold moving undercarriage components rigidly in place. They also absorb stress loads transmitted from the carbody.

- Castings and high-strength steel fabrication in crucial areas provide superior structural strength.
- Box beam section design includes internal stiffening plates to provide added strength.
- Top plates are inclined to reduce material build-up and packing under carrier rollers.
- Track motors and hydraulic lines are fully guarded.

Automatic track tensioning maintains the correct track tension.

- A gear pump supplies pressurized oil to a cylinder, extending a push rod which is attached to the idler.
- Check valves hold the pressure in the cylinder and maintain the correct track tension when the engine is not operating.
- For periodic maintenance, there is a manual release located on the track roller frame.
- Shock loads on the cylinders are absorbed by an accumulator and protected by a line relief valve.

Three shoe widths are available to match your application.

- Rock
- General Purpose
- Soft Underfoot
Spacious operator compartment measures 1790 mm (5'10") wide by 2178 mm (7'2") long by 2236 mm (7'4") high and has an exceptional, unobstructed view of the bucket and loading area.

- Cab offers ample leg room to the front of the operator’s seat.
- Trainee seat with seat belt at the rear of the cab has cooler-size storage under the seat cushion.
- Cab and nearby components are isolated to dampen sound and vibration.
- Operator sound levels have been field tested at or below 68 dB(A) with the air conditioning on, doors closed and the engine at rated speed.
- Hydraulic controls are pilot operated for low lever efforts and excellent control.

Air pressurization with positive filtered ventilation keeps the cab environment comfortable and clean.

- Two fresh air filters remove dust and particles before circulating.
- Every side window has its own vent.
- Front window has two large-diameter vents to maintain excellent all-around visibility, even in frost conditions.
- Foot level vents and two large-diameter vents in the console are devoted to the operator.

Contour series seat is fully adjustable for shift-long comfort.

- Seat cushions reduce pressure on the lower back and thighs.
- Short armrests allow freedom of movement with the joystick controls.
- Joystick control consoles can be repositioned independently according to operator’s preference.

KAB seat is available as an option.

- Weight-compensated support.
- Three-way seat cushion adjustment.
- Backrest is adjustable from 56° forward to 82° reclined.
The VIMS system continuously displays critical machine data. This information can be used to keep the 5130B performing at top production levels.

1. **Upper screen display.** On its upper screen, the VIMS maintains a constant display of four critical machine functions.
   - Engine coolant temperature.
   - Hydraulic oil temperature.
   - System air pressure.
   - Fuel level.

2. **Lower screen display.** The lower screen displays operator-requested information and also contains the VIMS three-category alert system.
   - Display fields include both a numeric reading in English or Metric units (e.g., degrees of temperature) and an electronic gauge which illustrates the function’s current position relative to a predetermined limit or setting.

3. **VIMS keypad.** allows the operator to access current machine system information from twenty-by-two VIMS display fields. The keypad is also used by service personnel to access diagnostic information.

   - **The three-category alert system** provides advisory information to the operator when conditions in a monitored system exceed a prescribed setting for ordinary operations.
     - The **advisory category** activates an alert indicator lamp when a system condition has been identified and appropriate corrective action is recommended.
     - In the **operator advised category**, an action lamp flashes in addition to the level one display.
     - **Immediate shutdown advised**, the final category, sounds an audio action alert in addition to the category two action. The action lamp and alert remain on until the system reading returns to normal or the machine is shutdown.

The VIMS diagnostics program allows service personnel to download a complete record of machine data events and system diagnostics to a lap-top computer.

- This information can be used to establish a baseline for machine performance in specific applications or to improve the effectiveness of scheduled maintenance programs.
- VIMS data makes it possible to correct minor problems before they cause extensive damage, which can result in costly down time.
Buckets

Aggressive bucket design and efficient linkage configuration promote high bucket fill factors.

High fill factors for the 5130B Front Shovel and Mass Excavator set this machine apart from the competition. Caterpillar’s quality design improves breakout and crowd forces, increasing fill factors.

- **Linkage geometry** optimizes mechanical advantage through the loading cycle.
- **Curved floor bucket design** moves the bucket fulcrum away from the cylinders, increasing breakout force; promotes smooth material flow to the back of the bucket.

**Box-section construction** is utilized in the dozer portion of front shovel buckets to provide torsional strength when the bucket is closed for digging.

**Steel castings are used in high-stress areas** such as the dozer hinges, bowl pivots, cylinder mounts, and corner adapters.

**Hardened bearings** improve the durability of the pivot and cylinder mounts in mass excavator buckets.

**Heat-treated steel** is used to improve the service life of corner and center adapters, cutting edges and side bars which will be subjected to more abrasive conditions.

**Standard wear plates** on the back, sides and bottom reinforce front shovel bucket structures. Wear packages with Abrasion Resistant Material (ARM) are also available for high abrasion applications.

**Bucket tips** are top-pinned directly to the adaptor for fast on-site replacement. General purpose rock and penetration tips are available to maximize penetration and tip life.

**Several front shovel and backhoe buckets** are available. Buckets range from rock/high density buckets to coal and light material buckets. Contact your dealer for a precise match to your application.
Shipping and assembly. Machine breaks down into eight modules for ease of shipping.

- Swing frame and carbody ship as a single unit which means the swing bearing doesn’t need to be assembled or disassembled.

Maintenance and service access.
The right and left side modules provide excellent service access as well as storage and working space.

Right module includes walk-around, lighted access to the engine, engine cooling system, batteries, and hydraulic pumps.

Left module includes cab riser which allows stand-up access to hydraulic pilot lines and to the main junction box for electrical and electronic components. It also includes a sheltered, lighted service area for the hydraulic tank, filters, hydraulic cooling system and auto-lube reservoir.

Superior stability is achieved by creating a lower center of gravity and is a result of the modular design.

- The left and right side modules are positioned low in relation to the swing frame module.
- The longitudinal mounting of the engine in the right side module makes this stable, low positioning possible.
Engine
Caterpillar, four cycle, 3508B twin turbocharged and aftercooled, diesel engine with electronic unit injection.

<table>
<thead>
<tr>
<th>Ratings at 1750 rpm*</th>
<th>kW</th>
<th>hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gross power</td>
<td>641</td>
<td>860</td>
</tr>
<tr>
<td>Net power</td>
<td>597</td>
<td>800</td>
</tr>
</tbody>
</table>

The following ratings apply at 1750 rpm when tested under the specified standard conditions for the specified standard:

<table>
<thead>
<tr>
<th>Net power</th>
<th>kW</th>
<th>hp</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caterpillar</td>
<td>597</td>
<td>800</td>
</tr>
<tr>
<td>ISO 9249</td>
<td>597</td>
<td>800</td>
</tr>
<tr>
<td>SAE J1349</td>
<td>591</td>
<td>792</td>
</tr>
<tr>
<td>EEC 80/1269</td>
<td>597</td>
<td>800</td>
</tr>
<tr>
<td>DIN 70020</td>
<td></td>
<td>829</td>
</tr>
</tbody>
</table>

*Power rating conditions
- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F)
- net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator
- no derating required up to 3050 m (10,000 ft)

Features
- Cat electronic control system monitors operator and sensor inputs to precisely optimize engine performance, at that altitude, with electronic unit injectors
- two hard-faced inlet and exhaust valves per cylinder, valve rotators and hard alloy-steel seats
- self-aligning roller followers on camshaft
- two-piece pistons with steel crown (three rings) and thermally isolated aluminum skirt
- direct-electric, 24-volt starting system with 100-amp alternator and four 210-amp-hour, low-maintenance, high-output, 12-volt batteries
- deep bowl combustion chamber

Dimensions
Bore 170 mm 6.7 in
Stroke 190 mm 7.5 in
Displacement 34.5 liters 2105 cu in

Hydraulic System
The hydraulic system for front structure and travel functions is supplied by four, variable displacement pumps. A separate variable displacement pump provides for the swing function.

<table>
<thead>
<tr>
<th>Main system piston-type pumps, closed center</th>
<th>99 gpm (x 4)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output at 1915 rpm</td>
<td>375 liters/min (x 4)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relief valve setting</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel</td>
<td>35 000 kPa</td>
<td>5000 psi</td>
</tr>
<tr>
<td>Front structure</td>
<td>31 000 kPa</td>
<td>4500 psi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Swing system piston-type pump, open center</th>
<th>117 gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output at 1915 rpm</td>
<td>450 liters/min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relief valve setting</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Accelerating</td>
<td>35 000 kPa</td>
<td>5000 psi</td>
</tr>
<tr>
<td>Decelerating</td>
<td>25 000 kPa</td>
<td>3620 psi</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pilot system gear-type pump, open center</th>
<th>14.5 gpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Output at 1915 rpm</td>
<td>56 liters/min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Relief valve setting</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Controls</td>
<td>4000 kPa</td>
<td>580 psi</td>
</tr>
<tr>
<td>Track Tension</td>
<td>7000 kPa</td>
<td>1000 psi</td>
</tr>
</tbody>
</table>

Features
- main hydraulic pumps are electronically controlled and dependent on engine speed
- engine automatically idles down with inactive controls and resets to original speed upon control engagement
- work cycle performance is optimized during single-function, high front structure speed requirements by combining pump flows
- all valves are pilot operated for ease of operation and excellent control
- all lines include primary and secondary relief valves as well as anti-cavitation valves
**Swing Mechanism**
Hydrostatic with independent planetary reduction.

**Ratings**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Swing Torque</td>
<td>587 kN-m (433,240 lb·ft)</td>
</tr>
<tr>
<td>Time for 90° lift and swing</td>
<td>7.3 sec (loaded bucket)</td>
</tr>
</tbody>
</table>

**Features**
- Power for the swing mechanism originates with two hydrostatic motors with independent planetary reduction and integral multiple disc brakes
- Internal gearing is totally enclosed, and is continuously lubricated together with the pinion

---

**Drive**
Drive system is fully hydrostatic.

**Ratings**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawbar Pull</td>
<td>872 kN (196,000 lbs)</td>
</tr>
<tr>
<td>Maximum Travel Speed</td>
<td>3.3 kph (2.1 mph)</td>
</tr>
</tbody>
</table>

**Features**
- Each track is driven by an independent, bent-axis piston motor via integral planetary final drives
- Multiple disc brakes are spring engaged, pressure released; each drive module is well integrated into the roller frame for total protection

---

**Brakes**

**Service brake features**
- Two wet, multiple-disc brakes are used on the final drive input shafts
- Spring-applied, hydraulically released
- Actuating a travel control simultaneously releases the brakes
- When the controls are released, the brakes automatically apply

**Parking brake features**
- Wet, multiple-disc brakes
- Spring applied, hydraulically released

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**Track**
Purpose built excavator undercarriage with cast, extreme service shoes.

**Choice of**
- 650 mm (26") shoes/Rock
- 800 mm (32") shoes/General Purpose
- 1000 mm (39") shoes/Soft Underfoot

**Ground Pressures**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front Shovel</strong></td>
<td></td>
</tr>
<tr>
<td>with 650 mm (26&quot;) shoes</td>
<td>216 kPa 31.4 lb/in²</td>
</tr>
<tr>
<td>with 800 mm (32&quot;) shoes</td>
<td>178 kPa 25.8 lb/in²</td>
</tr>
<tr>
<td>with 1000 mm (39&quot;) shoes</td>
<td>144 kPa 20.9 lb/in²</td>
</tr>
<tr>
<td><strong>Mass Excavator</strong></td>
<td></td>
</tr>
<tr>
<td>with 650 mm (26&quot;) shoes</td>
<td>218 kPa 31.6 lb/in²</td>
</tr>
<tr>
<td>with 800 mm (32&quot;) shoes</td>
<td>179 kPa 26.0 lb/in²</td>
</tr>
<tr>
<td>with 1000 mm (39&quot;) shoes</td>
<td>145 kPa 21.0 lb/in²</td>
</tr>
</tbody>
</table>

**Features (per side)**
- 48 track shoes
- 8 track rollers
- 2 carrier rollers
- 2 track guiding guards

---

**Steering**
Two rocker pedals with detachable hand levers control steering and travel functions.

**Controls**
- Controls are pilot-operated for reduced efforts
- Left pedal and lever control left track; right pedal and lever control right track
- When idlers are in front, pushing both pedals or levers forward moves the excavator straight ahead
- Rocking both pedals or pulling both levers backward moves the excavator straight back
- Moving one pedal or lever more than the other, either forward or backward, results in a gradual turn
- Moving one pedal or lever forward and the other pedal or lever backward counter-rotates the tracks for spot turns
**Front Structure Controls**
Two joystick hand levers actuate boom, stick, bucket and swing (SAE pattern).

- **Boom/Bucket Controls (Right joystick)**
  - move forward and backward to lower and raise boom
  - move left and right to control bucket curl and dump
  - button on top is boom float control (Front Shovel only)

- **Stick/Swing Controls (Left joystick)**
  - move forward and backward to move stick out and in
  - move left and right to control direction of swing
  - button on top controls horn

- **Other Features**
  - oblique movement of either lever operates two functions simultaneously
  - manually applied lever on left console cuts off pilot pressure for joysticks and travel controls and electrical power for engine starting circuit

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**Cab**
Caterpillar cab with integral Falling Object Guard is standard in North America, Europe and Japan.

**Cab Certifications**
- The cab structure is designed to protect the operator from falling objects, and is certified under SAE J1356 FEB88 and ISO 3449-1984 specifications.
  - A guard is available for the front windshield and is also certified under SAE J1356 FEB88. Currently there is no ISO specification for front guard structures.

**Note**
When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 MAY90, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture. The operator sound pressure level is 68 dB(A) when measured per ISO 6394 or 86/662/EEC.

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### Service Refill Capacities

<table>
<thead>
<tr>
<th></th>
<th>L</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>2600</td>
<td>687</td>
</tr>
<tr>
<td>Cooling System</td>
<td>300</td>
<td>79</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>125</td>
<td>33</td>
</tr>
<tr>
<td>Pump Drive</td>
<td>73</td>
<td>19</td>
</tr>
<tr>
<td>Swing Drive</td>
<td>14</td>
<td>3.7</td>
</tr>
<tr>
<td>Final Drive (each)</td>
<td>31</td>
<td>8.2</td>
</tr>
<tr>
<td>Hydraulic System</td>
<td></td>
<td></td>
</tr>
<tr>
<td>(including tank)</td>
<td>1800</td>
<td>476</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>1225</td>
<td>324</td>
</tr>
</tbody>
</table>
**Dimensions**

All dimensions are approximate.

---

**Supplemental Specifications**

**Shipping Dimensions**

<table>
<thead>
<tr>
<th>Truck Module</th>
<th>Weight</th>
<th>Length</th>
<th>Width</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbody/Swing Frame</td>
<td>38 630</td>
<td>7061</td>
<td>4115</td>
<td>3962</td>
</tr>
<tr>
<td>Track Roller Frame (x2)</td>
<td>23 610</td>
<td>7137</td>
<td>1499</td>
<td>1905</td>
</tr>
<tr>
<td>650 mm (26&quot;) shoes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>800 mm (32&quot;) shoes</td>
<td>24 640</td>
<td>7137</td>
<td>1499</td>
<td>1905</td>
</tr>
<tr>
<td>1000 mm (39&quot;) shoes</td>
<td>25 770</td>
<td>7137</td>
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</table>

* Items that are not marked with an FS or an ME apply to both machines.
Standard Equipment
Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

Action Alarm
Air conditioner/heater/defroster system
Air cleaner, dry type, with precleaner
Alarm, travel
Alternator, 105 amp
Automatic engine speed control
Automatic, air powered, Lincoln 64 l (17 gallon) capacity, lubrication system
Cab, resiliently mounted, sound suppressed and pressurized
(see operators station for features)
Cat Underspeed Control

Engine, Cat 3508B EUI Diesel
Engine oil quick change system
Lights, Halogen, working
Fuel tank — fast refill system
Locks, door and cap — one key system
Lube reel, manual (ME only)
Lube barrel, refillable
Mirrors, rearview, left on cab
Seat belt, retractable
Vital Information Management System (VIMS)

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

Backhoe Arrangement
Buckets (see below)
Cold weather starting options
Engine prelube
Front Shovel Arrangement
Ground Engaging Tools
General purpose tips
Penetration tips
Edge protection
Sidebar protectors
Seat, KAB, operator
Track shoes:
650 mm/26” rock shoes
800 mm/32” general purpose shoes
1000 mm/39” soft underfoot
Windshield guard, front
Wiggins central service center

Buckets

5130B Front Shovel — Bucket Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Width</th>
<th>Teeth</th>
<th>Mat'l Weight</th>
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<tbody>
<tr>
<td>m³</td>
<td>yd³</td>
<td>kg</td>
<td>lb</td>
<td>mm</td>
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<tr>
<td>Rock</td>
<td>11.0</td>
<td>14.5</td>
<td>17,900</td>
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5130B Mass Excavator Buckets — Bucket Specifications

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Weight</th>
<th>Width</th>
<th>Teeth</th>
<th>Mat'l Weight</th>
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</thead>
<tbody>
<tr>
<td>m³</td>
<td>yd³</td>
<td>kg</td>
<td>lb</td>
<td>mm</td>
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<td>High Density</td>
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<td>21,500</td>
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<td>Coal</td>
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<td>Coal</td>
<td>18.3</td>
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<td>9200</td>
<td>20,300</td>
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</table>

Note
Other bucket options are available. Contact your dealer for additional bucket selections.
Front Shovel Working Ranges
Front Shovel (F.S.) configuration

Max. Reach: 12.4 m (40.7')
Max. Level Crowd Distance: 4.3 m (14.1')
Max. Loading Height: 9.1 m (29.8')
Max. Loading Height at 8 m (26') Reach: 8.3 m (27.2')
Breakout: Force: 715 kN (161,000 lb)
Crowd: Force: 770 kN (173,000 lb)
Backhoe Working Ranges
Mass Excavation (M.E.) configuration

<table>
<thead>
<tr>
<th></th>
<th>3.8 m (12'6&quot;) Stick</th>
<th>5.2 m (17'0&quot;) Stick</th>
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<tbody>
<tr>
<td>Max. Reach</td>
<td>14.9 m (48.9')</td>
<td>16.2 m (53.1')</td>
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<tr>
<td>Max. Digging Depth</td>
<td>8.4 m (27.6')</td>
<td>9.7 m (31.8')</td>
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<tr>
<td>Max. Loading Height</td>
<td>9.1 m (29.8')</td>
<td>9.6 m (31.5')</td>
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<tr>
<td>Breakout: Force</td>
<td>672 kN (151,100 lb)</td>
<td>672 kN (151,100 lb)</td>
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<tr>
<td>Crowd: Force</td>
<td>624 kN (140,300 lb)</td>
<td>537 kN (120,700 lb)</td>
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</tbody>
</table>

5130B Hydraulic Shovel/Backhoe specifications