



CAT[®] 773 (05)

OFF-HIGHWAY TRUCK BARE CHASSIS

Caterpillar offers off-highway truck bare chassis designed for specialty machines in a variety of applications — including water trucks, tow tractors, and fuel / lube trucks. When configured as a water truck, the tank capacity is 13,000 gallons (49 210 liters). These partial machine configurations allow construction, quarry, and mining customers to purchase complete solutions from our global Cat[®] dealer network — with support every step of the way.

PROVEN CAT TRUCK PLATFORM

Cat trucks are built for durability, reliability, and efficiency to deliver the performance you need in some of the toughest applications around the world.

APPLICATION-SPECIFIC CAB & ROPS CERTIFICATION

Cat Off-Highway Truck Bare Chassis ROPS is certified to ISO 3471 Tractor criteria, to provide a higher level of protection for specialty applications.

OPERATOR EXPERIENCE

Completely redesigned cab interior for a whole new standard in visibility, comfort, and productivity.

- + Enjoy a more automotive-like, all-in-one integrated parking brake.
- + Intuitive, ergonomic controls and multifunction display keep operators focused on their work.
- + Designed for precise steering, Cat integrated steering and suspension system provides excellent maneuverability, minimal tire wear, and superior ride control.

FUEL SAVINGS

Standard economy mode provides maximum fuel savings with minimal productivity impact. Engine Idle Shutdown automatically initiates when the truck is in park and idles for a preset amount of time — conserving fuel.

INCREASED PERFORMANCE AND RELIABILITY

Build operator confidence with Automatic Retarder Control (ARC), providing excellent control while reducing operator effort for a smoother ride. Enjoy better productivity with a more responsive Traction Control System, improves control in poor underfoot conditions.

LOWER MAINTENANCE COSTS

Safe, convenient maintenance with a machine platform and ground level battery disconnect. The Advisor system provides quick, onboard diagnostic data and lowers operating costs.

SUPPORTED BY THE CAT DEALER NETWORK

- + Full support of Cat dealer and parts network
- + Eligible for Equipment Protection Plans (EPP) & Customer Value Agreements (CVAs)



773 (05) Off-highway Truck Bare Chassis Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Engine

| | | |
|-------------------------|------------|-----------------------|
| Engine Model | Cat® 3412E | |
| Rated Engine Speed | 2,000 rpm | |
| Gross Power - SAE J1995 | 567 kW | 760 hp |
| Net Power - SAE J1349 | 537 kW | 720 hp |
| Net Torque | 3436 N·m | 2,534 lb·ft |
| Bore | 137 mm | 5.4 in |
| Stroke | 152 mm | 6 in |
| Displacement | 27 L | 1,648 in ³ |

- These engine ratings apply at 2,000 rpm when tested under the specified condition for the specified standard in effect at the time of manufacture.
- Power rating conditions based on standard conditions of 25° C (77° F) and 99 kPa (29.32 in Hg) dry barometer, using 35° C (95° F) API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30° C (86° F) [reference a fuel density of 838.9 g/L (7.001 lb/gal)].
- 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 3048 m (10,000 ft) altitude.
- Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 2.

Operating Weights

| | | |
|-----------------------------|-----------|------------|
| Target Gross Machine Weight | 99 300 kg | 218,920 lb |
|-----------------------------|-----------|------------|

Operating Weights – with Hoist Cylinders

| | | |
|--------------------------------|-----------|------------|
| Bare Chassis Weight | 32 415 kg | 71,463 lb |
| Payload | 66 885 kg | 147,456 lb |
| Front Axle Bare Chassis Weight | 18 282 kg | 40,305 lb |
| Front Axle Payload | 14 487 kg | 31,938 lb |
| Rear Axle Bare Chassis Weight | 14 133 kg | 31,158 lb |
| Rear Axle Payload | 52 398 kg | 115,518 lb |

Operating Weights – without Hoist Cylinders

| | | |
|--------------------------------|-----------|------------|
| Bare Chassis Weight | 31 805 kg | 70,118 lb |
| Payload | 67 495 kg | 148,801 lb |
| Front Axle Bare Chassis Weight | 17 938 kg | 39,547 lb |
| Front Axle Payload | 14 831 kg | 32,697 lb |
| Rear Axle Bare Chassis Weight | 13 867 kg | 30, 571 lb |
| Rear Axle Payload | 52 664 kg | 116,104 lb |

- Care must be taken when designing any attachments so that the axle weights are not exceeded.

Tires

24.00R35 (E4)

- Productive capabilities of the 773 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

Weight Distributions – Approximate

| | |
|---------------------|-------|
| Front Axle – Empty | 46.6% |
| Front Axle – Loaded | 33.8% |
| Rear Axle – Empty | 53.4% |
| Rear Axle – Loaded | 66.2% |

Final Drives

| | |
|----------------------------|---------|
| Differential Ratio | 3.64:1 |
| Planetary Ratio | 4.8:1 |
| Total Reduction Ratio | 17.48:1 |
| • Planetary, full floating | |

Brakes

| | | |
|-----------------------|------------------------|-----------------------|
| Brake Surface – Front | 1395 cm ² | 216 in ² |
| Brake Surface – Rear | 61 269 cm ² | 9,496 in ² |
| Brake Standards | ISO 3450:2011 | |

Transmission

| | | |
|-----------|-----------|----------|
| Forward 1 | 10.8 km/h | 6.7 mph |
| Forward 2 | 15.1 km/h | 9.4 mph |
| Forward 3 | 20.4 km/h | 12.7 mph |
| Forward 4 | 27.4 km/h | 17 mph |
| Forward 5 | 37 km/h | 23 mph |
| Forward 6 | 50 km/h | 31.1 mph |
| Forward 7 | 67.8 km/h | 42.1 mph |
| Reverse | 13.1 km/h | 8.1 mph |

- Maximum travel speeds with standard 24.00R35 (E4) tires.

773 (05) Off-highway Truck Bare Chassis Specifications

Body Hoists

| | | |
|------------------------------|--------------|-------------|
| Pump Flow – High Idle | 562 L/min | 148 gal/min |
| Relief Valve Setting – Raise | 17 225 kPa | 2,500 psi |
| Relief Valve Setting – Lower | 3445 kPa | 500 psi |
| Body Raise Time – High Idle | 9.5 seconds | |
| Body Lower Time – Float | 12.5 seconds | |

- Twin, two-stage hydraulic cylinders mounted outside the main frame; double acting cylinders in second stage.
- Power raise in both stages and power down in second stage

Service Refill Capacities

| | | |
|--|-------|---------|
| Fuel Tank | 700 L | 185 gal |
| Cooling System | 122 L | 32 gal |
| Crankcase | 68 L | 18 gal |
| Differentials and Final Drives | 155 L | 41 gal |
| Steering Tank | 34 L | 9 gal |
| Steering System (includes tank) | 60 L | 16 gal |
| Brake/Hoist Hydraulic Tank | 133 L | 35 gal |
| Brake/Hoist System (includes tank) | 307 L | 81 gal |
| Torque Converter/Transmission System | 53 L | 14 gal |
| Torque Converter/Transmission System (includes sump) | 72 L | 19 gal |

Steering

| | | |
|-----------------------------------|---------------|------------|
| Steering Standards | ISO 5010:2007 | |
| Steer Angle | 31° | |
| Turning Diameter – Front | 22 m | 72 ft 2 in |
| Turning Circle Clearance Diameter | 25 m | 82 ft |

- Separate hydraulic system prevents cross-contamination. Steering
- wheel effort is low and steering wheel cycle times are reduced with a new variable displacement, piston-type steering pump.

Suspension

| | | |
|------------------------------------|--------|--------|
| Empty Loaded Cylinder Stroke Front | 234 mm | 5.2 in |
| Empty Loaded Cylinder Stroke Rear | 149 mm | 5.8 in |
| Rear Axle Oscillation | 8.1° | |

Cab

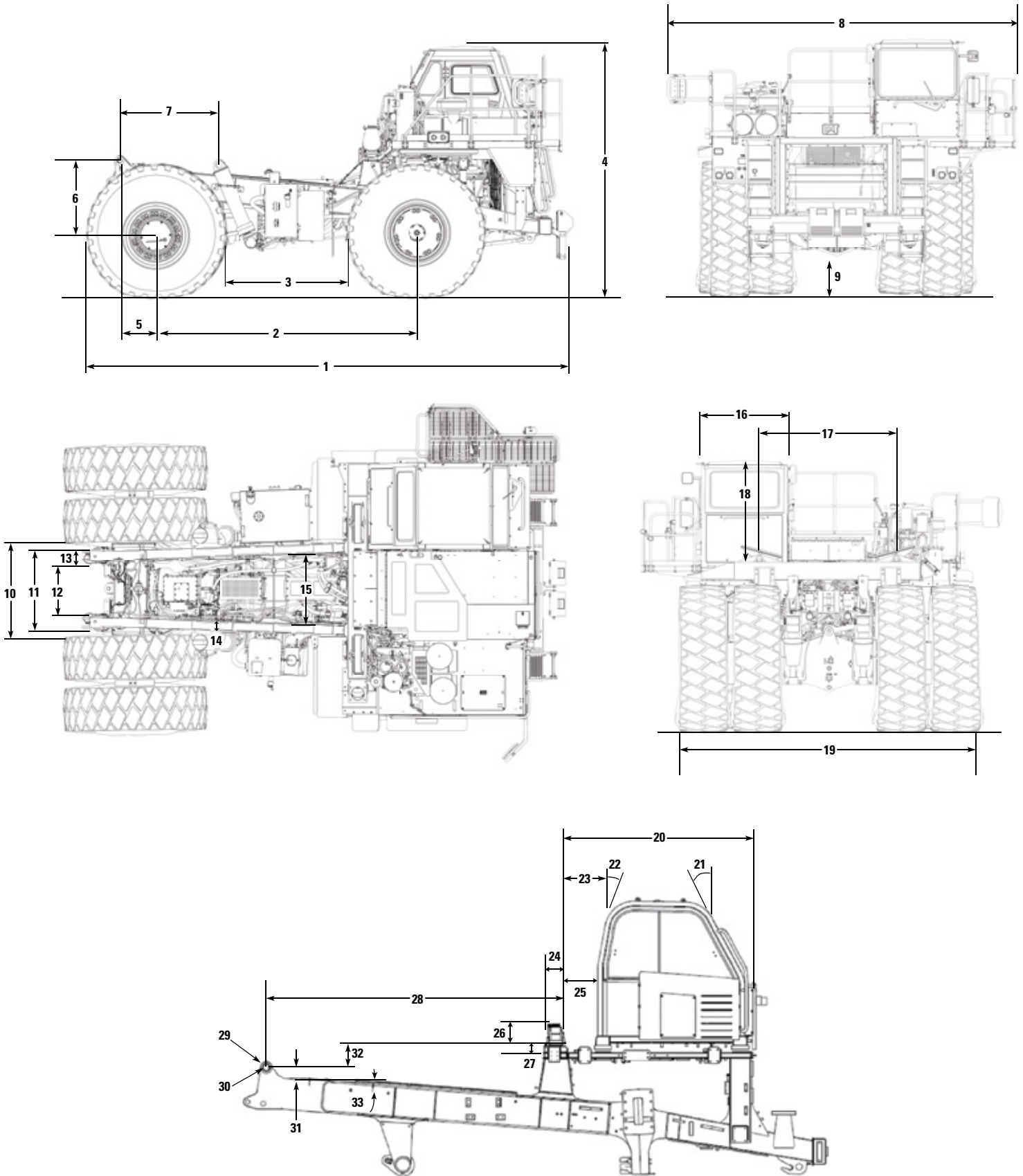
| | | |
|---------------------------|---------------------|-----------|
| ROPS Certification Rating | Tractor ROPS Rating | |
| 773 (Tractor) | 37 700 kg | 83,114 lb |

- Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 for operator and ISO 13459:2012 for trainer.
- Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria for operator and ISO 13459:2012 Level II criteria for trainer.
- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential =1430). The system contains 2.4 kg (5.29 lbs) of refrigerant, which has a CO₂ equivalent of 3.43 metric tonnes (3.78 tons).
- Note: Welding on ROPS or making modifications to the ROPS may void the ROPS certification. Please contact Caterpillar OEM Solutions if the application requires welding on the machine frame.

773 (05) Off-highway Truck Bare Chassis Specifications

Dimensions

All dimensions are approximate.



773 (05) Off-highway Truck Bare Chassis Specifications

Dimensions

| | | | |
|-----------|--|----------|-------------|
| 1 | Overall Length ** (does not include Wheel Chocks) | 9120 mm | 29 ft 11 in |
| 2 | Wheel Base | 4191 mm | 13 ft 9 in |
| 3 | Distance Between Tires | 1996 mm | 6 ft 5 in |
| 4 | Height to Top of ROPS ** | 4000 mm | 13 ft 2 in |
| 5 | Rear Axle to Body Pivot | 591 mm | 1 ft 9 in |
| 6 | Vertical Distance Between Body Pivot and Rear Axle | 1194 mm | 3 ft 9 in |
| 7 | Distance Between Body Pivot and Hoist Cylinders - Horizontal | 1584 mm | 5 ft 2 in |
| 8 | Overall Width | 5539 mm | 18 ft 2 in |
| 9 | Engine Guard Clearance ** | 754 mm | 2 ft 4 in |
| 10 | Distance Between Hoist Cylinders | 1585 mm | 5 ft 2 in |
| 11 | Distance Between Body Pivots - Outer | 1204 mm | 3 ft 9 in |
| 12 | Distance Between Body Pivots - Inner | 890 mm | 2 ft 11 in |
| 13 | Body Pin Bearing Width | 156.8 mm | 0 ft 5 in |
| 14 | Frame Rail Width | 142 mm | 0 ft 5 in |
| 15 | Distance Between Frame Rails | 1112 mm | 4 ft 2 in |
| 16 | Cab Width | 1310 mm | 5 ft 3 in |
| 17 | Distance Between Rocker Pads | 2064 mm | 6 ft 9 in |
| 18 | Height of the Cab from Main Beam | 1541 mm | 5 ft 0 in |
| 19 | Overall Tire Width | 4387 mm | 14 ft 3 in |
| 20 | Distance Between Main Beam and Cab Front | 2515 mm | 8 ft 2 in |
| 21 | Cab Front Angle | | 18 degrees |
| 22 | Cab Rear Angle | | 25 degrees |
| 23 | Distance Between Main Beam and Cab Roof | 795 mm | 2 ft 6 in |
| 24 | Main Beam Width | 282 mm | 0 ft 9 in |
| 25 | Distance Between Main Beam and Cab Rear | 59.5 mm | 0 ft 2 in |
| 26 | Rocker Pad Height | 255 mm | 0 ft 8 in |
| 27 | Main Beam Height | 284.5 mm | 0 ft 9 in |
| 28 | Distance Between Body Pivot and Main Beam | 3896 mm | 12 ft 7 in |
| 29 | Body Pivot Outer Radius | 75.6 mm | 0 ft 2 in |
| 30 | Body Pivot Pin Diameter | 75.6 mm | 0 ft 2 in |
| 31 | Distance Between Body Pivot and Frame | 83 mm | 0 ft 2 in |
| 32 | Distance Between Main Beam and Body Pivot Pin | 23.5 mm | 0 ft 1 in |
| 33 | Frame Slope Angle | | 5.5 degrees |

** These dimensions may vary based on tire size, pressure and load. All dimensions are for reference only and may change for different machine configurations.

773 (05) Off-highway Truck Bare Chassis Specifications

Standard and Optional Equipment

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

| | Standard | Optional | | Standard | Optional |
|--|----------|----------|---|----------|----------|
| POWERTRAIN | | | OPERATOR ENVIRONMENT | | |
| Cat® 3412E HEUI™ engine: 12-cylinder diesel, air-to-air aftercooler (ATAAC), hydraulic electronic unit injection, air filter with precleaner (2), automatic cold mode idle control, turbocharger (2) | • | | Air filter service indicator | • | |
| Extended life coolant to -35° C (-30° F) | • | | Air system pressure gauge | • | |
| Braking system: oil-cooled – multiple disc (rear), parking/secondary, caliper disc (front), manual retarder (utilizes rear oil-cooled, multiple disc brakes), brake release motor (towing) | • | | Ashtray and cigarette lighter | • | |
| Auto retarder control (ARC) | | • | Audiovisual seat belt reminder | • | |
| Traction Control System (TCS) | | • | Brake oil temperature gauge | • | |
| IBC (ARC & TCS) | | • | Camera System | • | |
| Transmission: 7-speed automatic power shift with ICM control, body upshift inhibitor, controlled throttle shifting, directional shift management, downshift inhibitor, neutral coast inhibitor, neutral start switch, programmable top gear/speed selection, reverse neutralizer during dumping, reverse shift inhibitor | • | | Coat hook, cup holder | • | |
| | | | Coolant temperature gauge | • | |
| | | | Diagnostic connection port | • | |
| | | | Engine overspeed indicator | • | |
| | | | Entertainment radio ready: speakers, antenna, wiring harness | • | |
| | | | Fog lamp | | • |
| | | | Heated mirrors | | • |
| | | | Hoist lever | • | |
| | | | Hour meter | • | |
| | | | HVAC | • | |
| | | | Left side power window | • | |
| | | | Load counter, automatic: Advisor display | • | |
| | | | Mirrors, left and right | • | |
| | | | Right side access door | • | |
| | | | ROPS cab, insulated/sound suppressed | • | |
| | | | Seat, Cat Comfort, full air suspension and retractable four-point seat belt with shoulder harness | • | |
| | | | Seat, trainer with lap belt | • | |
| | | | Tachometer | • | |
| | | | Throttle lock | • | |
| | | | Tinted, laminated glass | • | |
| | | | Transmission gear indicator | • | |
| | | | Transmission oil temperature gauge | • | |
| ELECTRICAL | | | | | |
| Alarm backup | • | | | | |
| Alternator, 115 ampere | • | | | | |
| Auxiliary jump start receptacle | • | | | | |
| Batteries, maintenance-free, 12V (2), 190 amp-hour | • | | | | |
| Electrical system, 24V | • | | | | |
| Lighting system: backup light (halogen), directional signals/hazard warning (front and rear LED), headlights – (LED) with dimmer, hazard lights (LED), stop/tail lights (LED) | • | | | | |

773 (05) Off-highway Truck Bare Chassis Specifications

Standard and Optional Equipment

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

| | Standard | Optional |
|--|----------|----------|
| OTHER EQUIPMENT | | |
| Airline dryer | • | |
| Automatic lubrication system | | • |
| Body down indicator | • | |
| Center mounted rims | • | |
| Cluster/grouped lubrication system | | • |
| Cold weather packages | | • |
| Driveline guards, operator safety vandalism protection lock | • | |
| Engine crankcase guards | • | |
| Exhaust Muffler | | • |
| Fast fluid fill system | | • |
| Fire extinguisher | | • |
| Fuel system, Fast fill | | • |
| Ground level battery disconnect | • | |
| Ground level machine shutdown | • | |
| Ground level grease fittings | • | |
| Guard, Turbocharger | | • |
| Hydro pneumatic suspension at front and rear | • | |
| Oil change system – high speed | | • |
| Parts manual – digital (QR) | • | |
| Reservoirs: transmission, steering, brake – converter, hoist | • | |
| Spare rim | | • |
| Supplemental steering, automatic | • | |
| Wheel Chocks | | • |

| | Standard | Optional |
|---|----------|----------|
| CAT TECHNOLOGY PRODUCTS | | |
| Product Link™, cellular or satellite | • | |
| Vital Information Management System (VIMS™) | | • |
| Truck Payload Management System (TPMS) | | • |

For more information on Cat Truck Bare Chassis, contact OEM Solutions:

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Build Number: 05

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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