



740

Articulated Truck

Technical Specifications

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

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740 Articulated Truck Specifications

Engine

Engine Model	Cat® C15	
Gross Power (SAE J1995)	335 kW	449 hp
Net Power (SAE J1349)	324 kW	434 hp
Engine Power (ISO 14396)	330 kW	443 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in ³

- Advertised power is tested at 1,700 rpm.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler, and fan at minimum speed.
- Net power when the fan is at maximum speed is 324 kW (434 hp) per the SAE reference conditions.
- Two engine emissions options are available:
 1. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
 2. Noncertified configuration that is equivalent to U.S. EPA Tier 2 and EU Stage II.

No Engine Derating Below	3050 m	10,000 ft
Peak Engine Torque Gross (SAE J1995:2014)	2320 N·m	1,711 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	2264 N·m	1,670 lbf-ft
Peak Engine Torque Speed	1,200 rpm	

Body Capacities

Heaped SAE 2:1	22.7 m ³	29.7 yd ³
Struck	17.7 m ³	23.2 yd ³
Tailgate Heaped SAE 2:1	24.4 m ³	31.9 yd ³
Tailgate Struck	17.9 m ³	23.4 yd ³

Transmission

Forward 1	6.4 km/h	4.0 mph
Forward 2	8.5 km/h	5.3 mph
Forward 3	11.5 km/h	7.3 mph
Forward 4	14.8 km/h	9.2 mph
Forward 5	19.7 km/h	12.2 mph
Forward 6	24.0 km/h	14.9 mph
Forward 7	33.1 km/h	20.6 mph
Forward 8	39.8 km/h	24.7 mph
Forward 9	57.5 km/h	35.7 mph
Reverse 1	6.8 km/h	4.2 mph
Reverse 2	15.7 km/h	9.8 mph

Sound Levels

Interior Cab	72 dB(A)
<ul style="list-style-type: none"> • The declared dynamic operator sound pressure level is 72 dB(A) when ISO 6396:2008 is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the cooling fan's maximum speed. The sound level may vary at different cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained. 	
<ul style="list-style-type: none"> • Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or with doors/windows open for extended periods or in noisy environments. 	

Weights

Rated Payload	36.3 tonnes	40 tons
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740 Articulated Truck Specifications

Operating Weights

Front Axle – Empty	19 095 kg	42,097 lb
Center Axle – Empty	6785 kg	14,958 lb
Rear Axle – Empty	6680 kg	14,727 lb
Total – Empty	32 560 kg	71,782 lb
Front Axle – Rated Load	3176 kg	7,002 lb
Center Axle – Rated Load	16 562 kg	36,513 lb
Rear Axle – Rated Load	16 562 kg	36,513 lb
Total – Rated Load	36 300 kg	80,028 lb
Front Axle – Loaded	22 271 kg	49,099 lb
Center Axle – Loaded	23 347 kg	51,471 lb
Rear Axle – Loaded	23 242 kg	51,240 lb
Total – Loaded	68 860 kg	151,810 lb

Body Plate

High strength Brinell HB450 wear resistant steel

Body Plate Thickness

Front Plate	7 mm	0.28 in
Base Plate	13 mm	0.51 in
Side Plates	11 mm	0.43 in

Service Refill Capacities

Fuel Tank	550 L	145.3 gal
Cooling System	90 L	23.7 gal
Brake Cooling Tank	67 L	17.7 gal
Steering/Hoist Hydraulic System	140 L	36.9 gal
Engine Crankcase	52 L	13.7 gal
Transmission/Output Transfer Gear	75 L	19.8 gal
Final Drives (each)	5 L	1.3 gal
Axles (each)	60 L	15.8 gal

Body Hoist

Raise Time	12 Seconds
Lower Time	12 Seconds

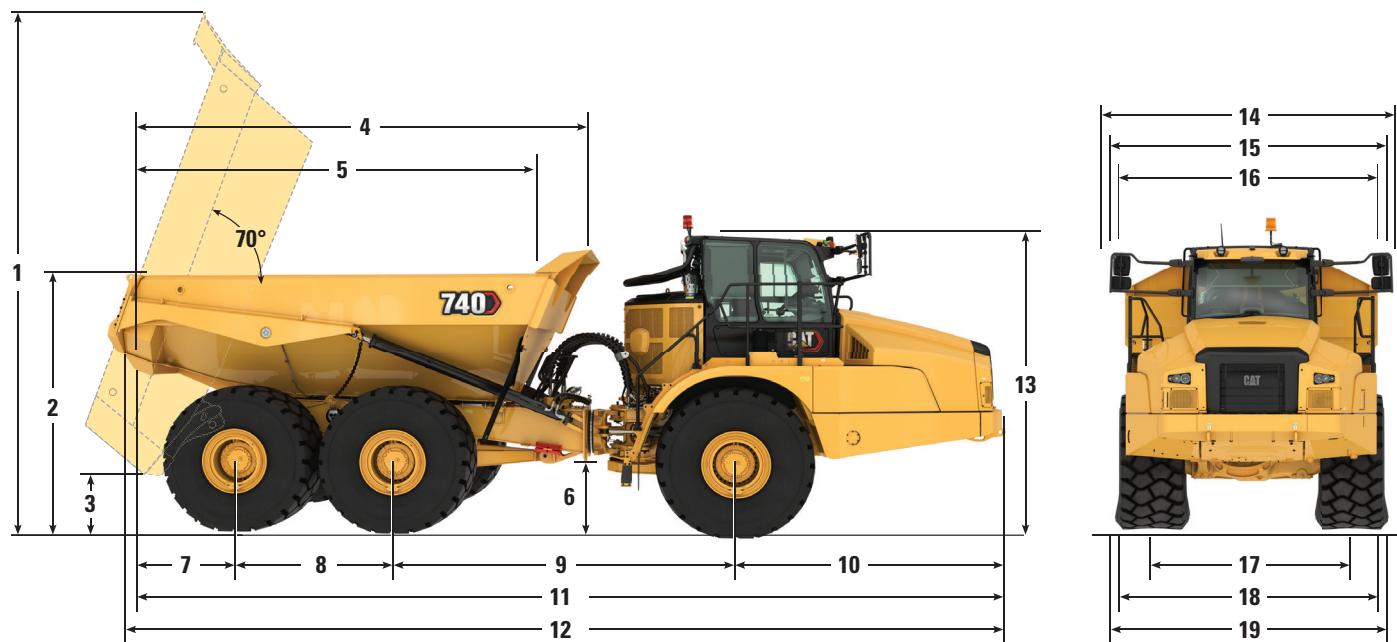
Standards

Brakes	ISO 3450:2011
Cab/Falling Objects Protective Structure (FOPS)	ISO 3449:2005 Level II
Cab/Rollover Protective Structure (ROPS)	ISO 3471:2008
Steering	ISO 5010:2019

740 Articulated Truck Specifications

Dimensions

All dimensions are approximate.



	mm	ft/in
1 Body Height Fully Tipped	6685	22'0"
2 Load over Height	3243	10'8"
3 Ground Clearance – Body Fully Tipped	684	2'2"
4 Body Length	5889	19'4"
5 Body Length Inside	5437	17'10"
6 Ground Clearance	588	1'9"
7 Rear Axle Center to Body Rear	1542	5'1"
8 Mid Axle to Rear Axle Center	1966	6'5"
9 Mid Axle to Front Axle (Centers)	4126	13'6"
10 Front Axle Center to Machine Front	3418	11'2"
11 Overall Length	11 065	36'3"
12 Overall Length with Tailgate	11 185	36'8"
13 Height Transport Position	3757	12'3"
14 Overall Width	3801	12'4"
15 Width over Tailgate/Width Including Tailgate	3647	12'0"
16 Body Width	3422	11'2"
17 Track Width	2687	8'9"
18 Width over Tire	3370	11'1"
19 Width over Fenders	3500	11'5"

Turning Circle

Dimensions are for machines equipped with 29.5 R25 tires.

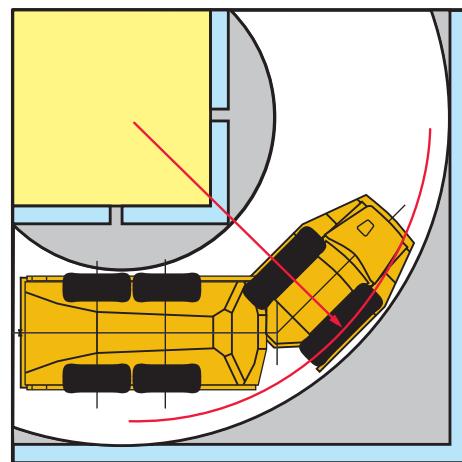
Turning Dimensions

Steer Angle – From Center Left/Right	45°
SAE Turning Radius	7698 mm 303 in
Clearance Radius	8395 mm 330 in
Inside Radius	3960 mm 156 in
Aisle Width	5595 mm 220 in

Steering

Lock to Lock

4.75 seconds at 60 rpm



Optimal Loader/Truck Pass Matching

Hydraulic Excavators

374

352

Passes

3-4

5-6

Wheel Loaders

972

966

962

Passes

3

4-5

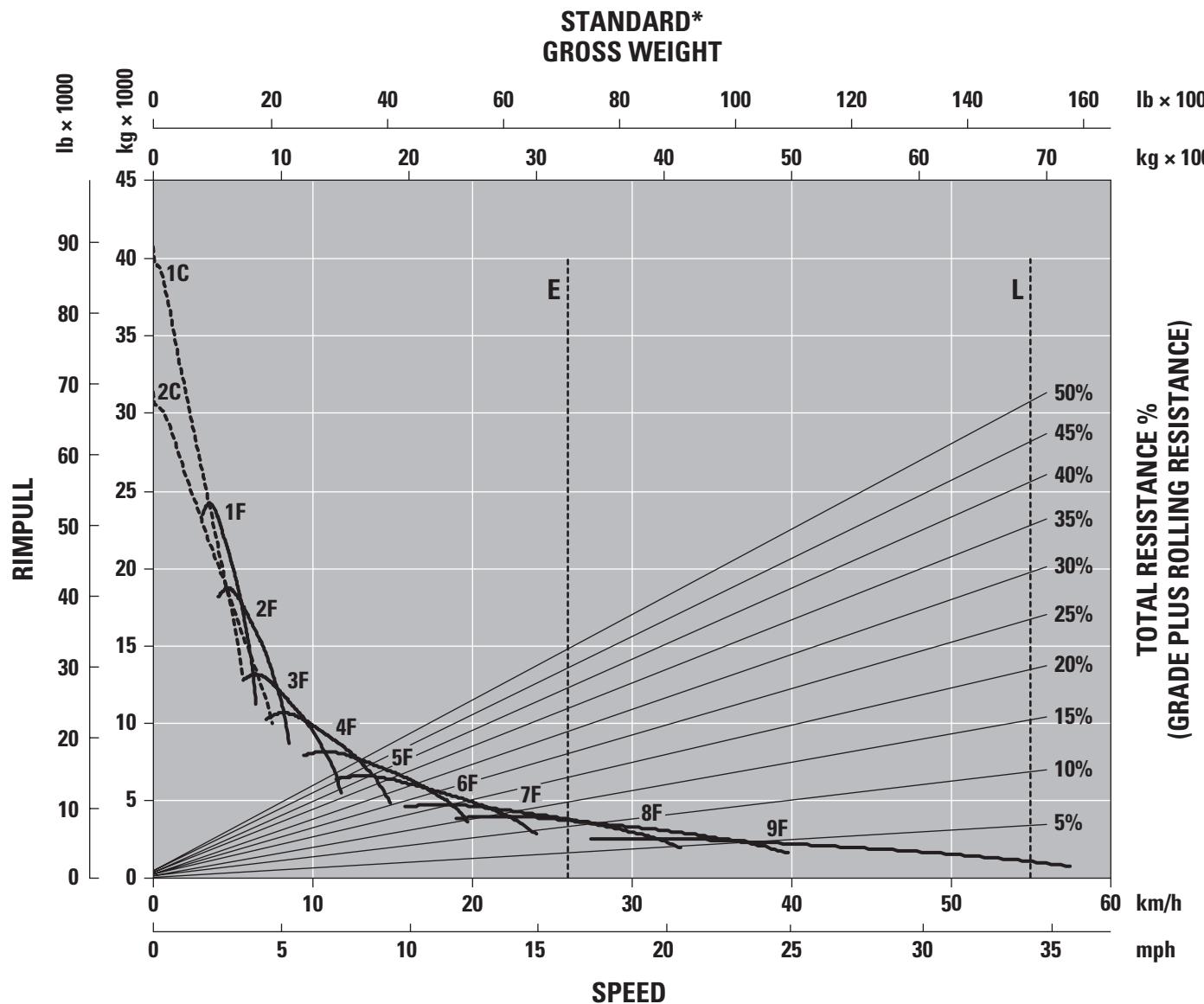
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An optimum system match gives you a major productivity advantage. The 740 is an excellent match for the Cat 374 and 352 Hydraulic Excavators and Cat 972, 966, and 962 Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

740 Articulated Truck Specifications

Gradeability/Speed/Rimpull

To determine performance, read from standard gross weight down to total resistance %. Total resistance equals actual % grade plus 1% for each 10 kg/metric ton (20 lb/ton) of rolling resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to speed. Usable rimpull depends on traction available.



1C – 1st Gear (Converter Drive)

1F – 1st Gear (Direct Drive)

2C – 2nd Gear (Converter Drive)

2F – 2nd Gear (Direct Drive)

3F – 3rd Gear

4F – 4th Gear

5F – 5th Gear

6F – 6th Gear

7F – 7th Gear

8F – 8th Gear

9F – 9th Gear

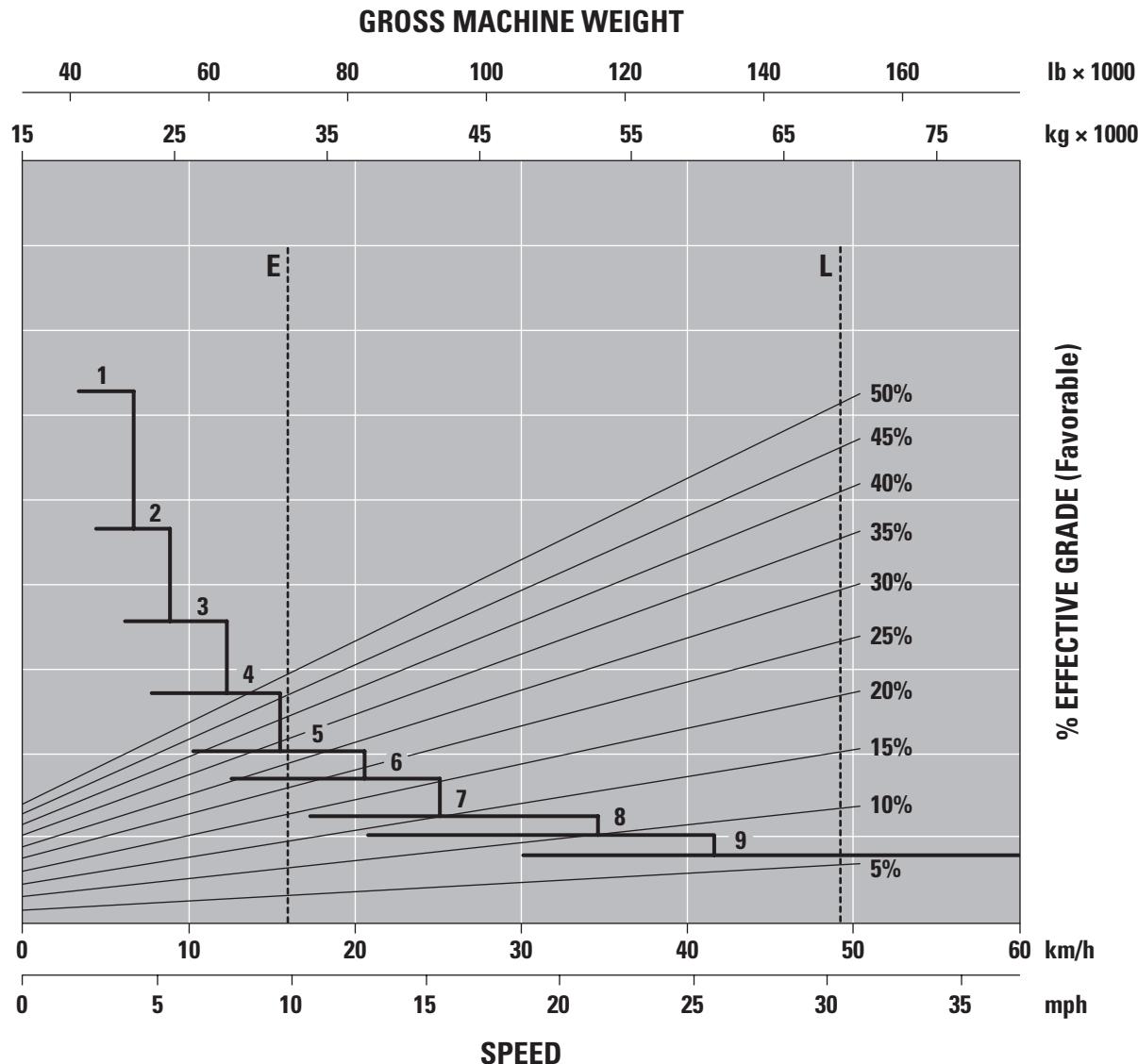
E – Empty 32 560 kg (71,782 lb)

L – Loaded 68 860 kg (151,810 lb)

* at sea level

Retarding Performance

To determine performance, read from gross machine weight down to % effective grade. Effective grade equals actual % favorable grade plus 1% for each 10 kg/metric ton (20 lb/ton) of rolling resistance. From this point, read horizontally to the curve with the highest attainable speed range. Then, go down to speed. Retarding effect on these curves represents full application of the retarder.



- 1 – 1st Gear
- 2 – 2nd Gear
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear
- 7 – 7th Gear
- 8 – 8th Gear
- 9 – 9th Gear

E – Empty 32 560 kg (71,782 lb)
 L – Loaded 68 860 kg (151,810 lb)

740 Articulated Truck Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional	Standard	Optional
OPERATOR ENVIRONMENT				
Air conditioning	✓		Machine security system (MSS)	✓
Adjustable air vents	✓		Cat® Payload monitoring system	✓
Combined gear selection and hoist control lever	✓		Cat Detect with Stability Assist	✓
Glass windows: front, laminated and tinted; sides and rear, toughened and tinted	✓		Product Link Cellular PLE643	✓
Heater and defroster with four-speed fan	✓		Product Link Dual PLE683	✓
Infrared glass – high ambient cab	✓		ELECTRICAL AND LIGHTING	
Liquid crystal display (LCD): alert indicator, selected gear and direction, speed or auto shift, operation and maintenance manual (OMM), primary steering failure (warning), seat belt warning, secondary steering failure, diesel particulate filter (DPF) regeneration filter, secondary steering energy source engaged, hour meter, retarder active	✓		Batteries (two) maintenance free	✓
Mirrors, exterior	✓		Cold weather start attachment	✓
Mirrors, heated motorized	✓		Engine block heater	✓
Machine operation monitoring system: action lamp, engine oil pressure, primary steering system, left and right turn signal, high beam, coolant temperature, tachometer, parking brake, fuel level, transmission oil temperature, brake system, transmission hold, hoist control, hydraulic system, charging system, transmission fault, traction control system, check engine lamp	✓		Ether start	✓
Radio, Bluetooth® stereo system	✓		Electrical system: 24-volt, 10A 24- to 12-volt converter	✓
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓		Flashing LED beacon	✓
Seat, heated/cooled	✓		Horn	✓
Operator seat belt, four-point	✓		Lighting systems: cab interior, two head lamps, two width marker, two reversing, work light/cab access light, two stop/tail lights, front and rear direction indicators	✓
Secondary steering – electro hydraulic	✓		Main disconnect switch	✓
Storage: cup holder, flask receptacle (under the secondary seat), under seat storage, door pocket, behind seat storage, coat hook	✓		Remote starting receptacle (cables not included)	✓
Sun visor	✓		Roof mounted LED work lights	✓
Tilt and telescopic steering wheel	✓		POWERTRAIN	
Touchscreen display incorporating the rearview camera video feed	✓		Auto shift nine-speed forward and two-speed reverse transmission	✓
Window blinds	✓		Cat C15 engine	✓
Windows (tinted) opening both sides	✓		CX38 transmission	✓
Windshield wiper and washer, two speed, intermittent (front)	✓		Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓
Window wiper and washer, two speed (rear)	✓		Dual circuit oil immersed, enclosed brakes – all wheels	✓
SAFETY				
			Retarder: engine compression brake	✓
			Three axle, six-wheel drive	✓
GUARDS				
			Reverse alarm	✓
			Rearview camera	✓
			Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	✓
			Crankcase	✓
			Front dump body spill guard, integral part of fabricated body	✓
			Radiator	✓
			Rear window	✓

740 Articulated Truck Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional	Standard	Optional
OTHER				
Auto lube installation for automatic greasing of bearings		✓	Mud flaps: wheel arch and body mounted with transportation tiebacks	✓
Bare chassis (no body) standard wheel base	✓		Scissor tailgate	✓
Bare chassis (no body) long wheel base	✓		S·O·S SM sampling valves	✓
Body liners	✓		Sound suppression	✓
Cold weather coolant -51°C (-60°F)	✓		Tires, six 29.5 R25	✓
Exhaust heated body	✓		Tires, six 875/65 R29 wide tires	✓
Fast fuel fill	✓		Vandalism protection: lockable caps	✓
Fuel additive – anti-waxing	✓		Wheel chocks	✓
			Tailgate ready	✓



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

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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