



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 | |

Weights

| | | |
|---------------|-------------|---------|
| Rated Payload | 36.3 tonnes | 40 tons |
|---------------|-------------|---------|

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) |
|--------------|----------|
- 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.
 - 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.

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 |

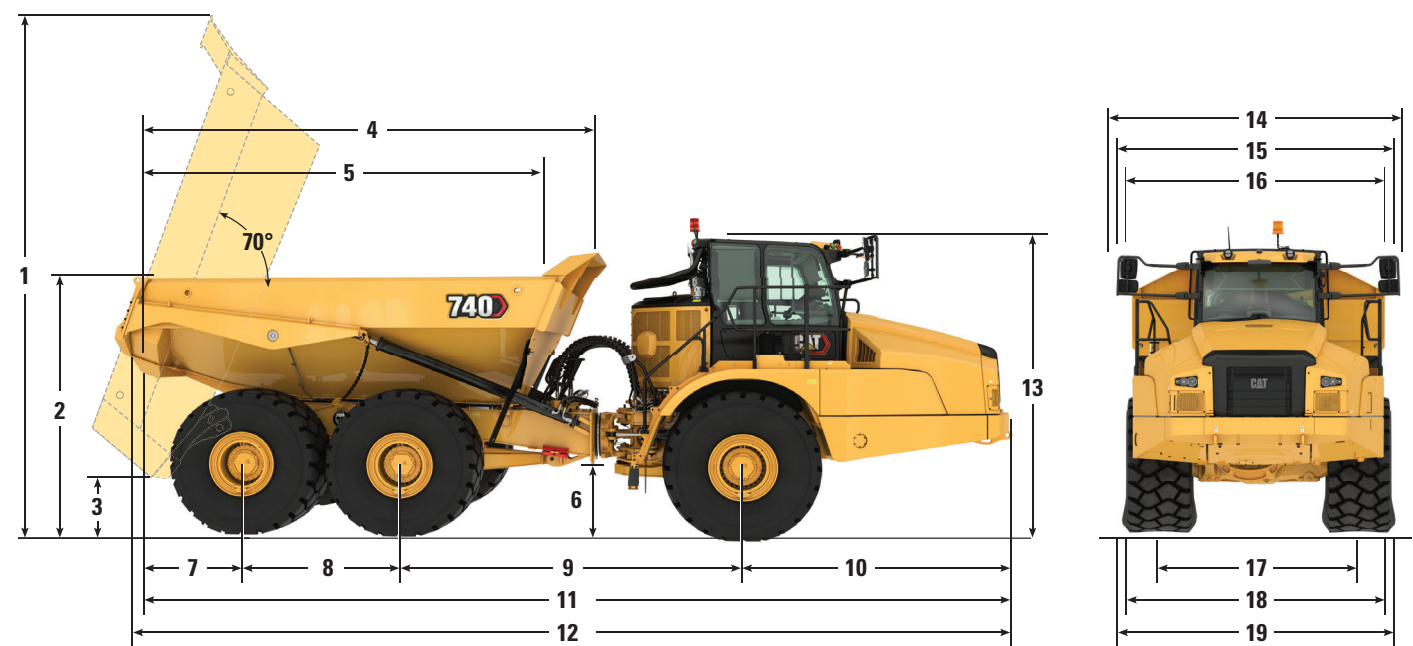
Standards

| | |
|-------------------------------------------------|------------------------|
| 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" |

740 Articulated Truck Specifications

Turning Circle

Dimensions are for machines equipped with 29.5 R25 tires.

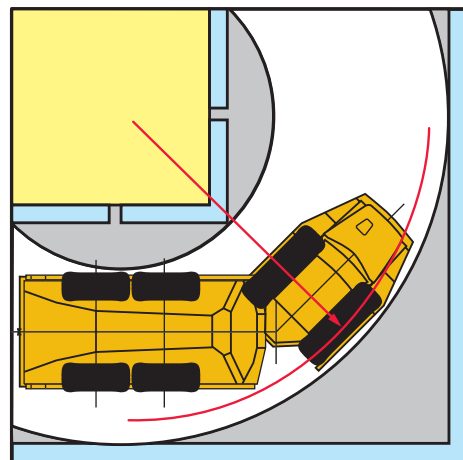
Turning Dimensions

| | | |
|--------------------------------------|---------|--------|
| 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

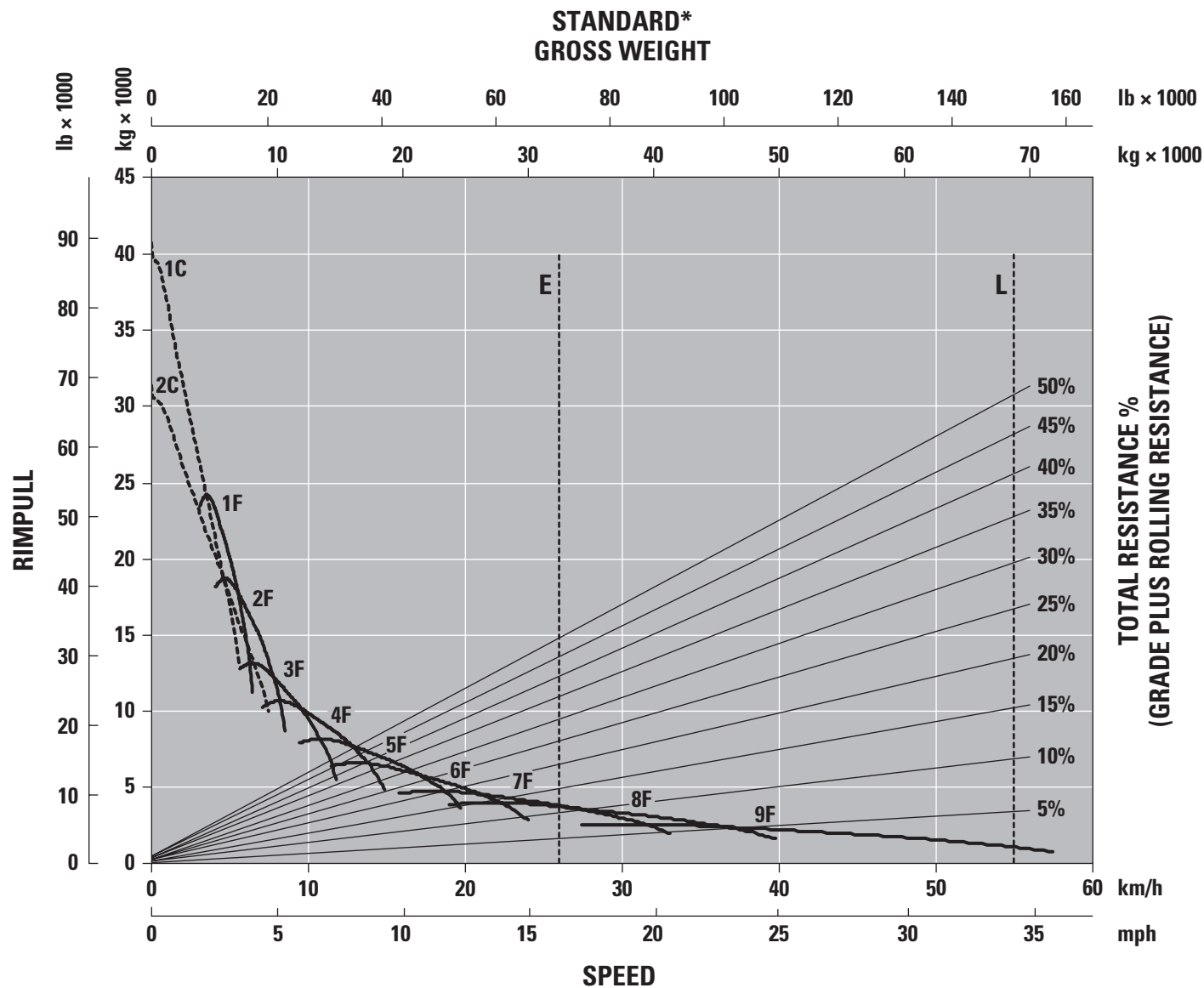
| | | | |
|-----------------------------|------------|------------|------------|
| Hydraulic Excavators | 374 | 352 | |
| Passes | 3-4 | 5-6 | |
| Wheel Loaders | 972 | 966 | 962 |
| Passes | 3 | 4-5 | 5 |

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.



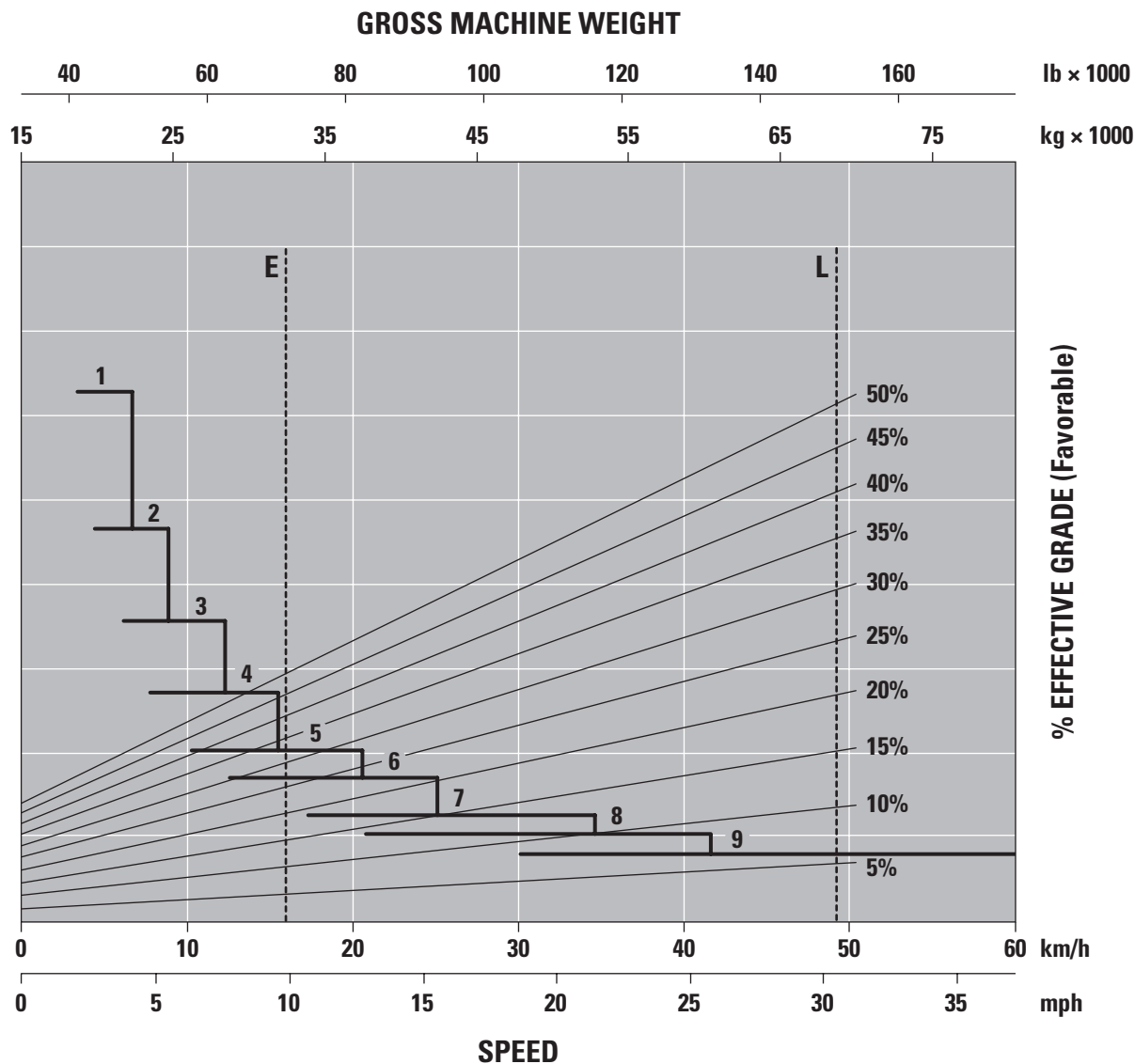
1C – 1st Gear (Converter Drive)
1F – 1st Gear (Direct Drive)
2C – 2nd Gear (Converter Drive)
2F – 2nd Gear (Direct Drive)
3F – 3rd Gear
4F – 4th Gear
5F – 5th Gear
6F – 6th Gear
7F – 7th Gear
8F – 8th Gear
9F – 9th Gear

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

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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 | | | TECHNOLOGY | | |
| 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 | ✓ | |
| | | | Retarder: engine compression brake | ✓ | |
| | | | Three axle, six-wheel drive | ✓ | |
| | | | SAFETY | | |
| | | | Reverse alarm | ✓ | |
| | | | Rearview camera | ✓ | |
| | | | Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab | ✓ | |
| | | | GUARDS | | |
| | | | 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 | | | OTHER (CONTINUED) | | |
| 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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Build Number: 04B
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