



Cat[®] 740B EJ

Articulated Truck

NEW FEATURES:

- Unique Cat[®] Ejector Body Features
- C15 Engine with ACERT[™] Technology meeting Tier 4 Interim/EU Stage IIIB engine emission regulations
- Cat “on-the-go” Regeneration System
- Controlled Throttle Shift (CTS) Transmission
- Automatic Traction Control (ATC)
- Passenger grab handle
- Floor-mounted accelerator pedal
- Park brake switch – guarded by raised dash moldings
- Dash dimmer switch
- Headliner with radio/CD mounting
- Machine width position lamps
- Electric hood switch mounted in-cab
- External grab rail around cab roof
- Improved fuse panel
- Color Multi-Purpose Display (CMPD) incorporating the rearview camera screen and cycle counter
- Machine Security System Tornado-ready (optional)
- External roof-level work lights (optional)
- Motorized mirrors (optional)

Specifications

Engine

Engine Model	Cat [®] C15 ACERT [™]	
Gross Power – SAE J1995	365 kW	489 hp
Net Power – SAE J1349	354 kW	474 hp
Net Power – ISO 14396	361 kW	484 hp
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	926 in ³

- The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.
- 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 321 kW (435 hp) per the SAE reference conditions.
- The 740B EJ meets EPA Tier 4 Interim/EU Stage IIIB emission specifications for the U.S. and Europe through 2013
- No engine derating required below 2438 m (8,000 ft).
- Peak engine torque gross (SAE J1995) 2510 N-m (1,850 lb-ft)
- Peak engine torque net (SAE J1349) 2466 N-m (1,819 lb-ft)
- Peak engine torque speed (1,200 rpm)

Weights

Rated Payload	38 tonnes	42 tons
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Body Capacities

Heaped SAE 2:1	23.1 m ³	30.2 yd ³
Struck	17.8 m ³	23.3 yd ³

Transmission

Forward 1	8.9 km/h	5.5 mph
Forward 2	12.1 km/h	7.5 mph
Forward 3	16.4 km/h	10.2 mph
Forward 4	22 km/h	13.7 mph
Forward 5	30 km/h	18.6 mph
Forward 6	40 km/h	25.1 mph
Forward 7	54.7 km/h	34 mph
Reverse 1	8.4 km/h	5.2 mph
Reverse 2	11.6 km/h	7.2 mph

Sound Levels

Interior Cab	79 dB(A)
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- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 79 dB(A), for the 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 environments.



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Operating Weights

Front Axle – Empty	21 395 kg	47,168 lb
Center Axle – Empty	8127 kg	17,917 lb
Rear Axle – Empty	7373 kg	16,255 lb
Total – Empty	36 895 kg	81,400 lb
Front Axle – Rated Load	1642 kg	3,620 lb
Center Axle – Rated Load	18 179 kg	40,078 lb
Rear Axle – Rated Load	18 179 kg	40,078 lb
Total – Rated Load	38 000 kg	83,776 lb
Front Axle – Loaded	23 027 kg	50,788 lb
Center Axle – Loaded	26 306 kg	57,995 lb
Rear Axle – Loaded	25 552 kg	56,333 lb
Total – Loaded	74 895 kg	165,115 lb

Body Plate Thickness

Front	6 mm	0.24 in
Side	6 mm	0.24 in
Base	10 mm	0.39 in

Service Refill Capacities

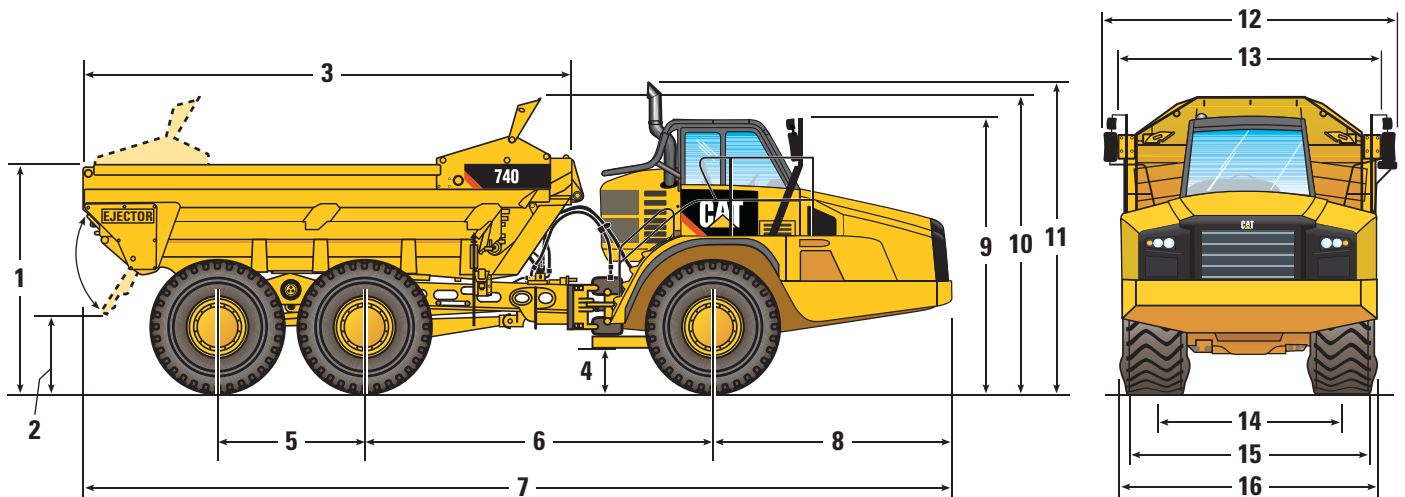
Fuel Tank	560 L	148 gal
Cooling System	80 L	21.1 gal
Hydraulic System	328 L	86.6 gal
Engine Crankcase	38 L	9.5 gal
Transmission	72 L	19 gal
Final Drives/Differential	72 L	19 gal
Output Transfer Gear Box	18 L	4.8 gal

Ejector Cycle Times

Eject Time	14 Seconds
Retract Time	24 Seconds

Standards

Brakes	ISO 3450 – 1996
Cab/FOPS	ISO 3449 Level II – 2005
Cab/ROPS	ISO 3471 – 2008
Steering	ISO 5010 – 2007



Dimensions

	mm	ft		mm	ft
1	3067	10.0	9	3745	12.2
2	1098	3.6	10*	3984	13.1
3	6730	22.1	11**	4039	13.3
4	577	1.8	12	4163	13.7
5	1966	6.4	13	3512	11.5
6	4596	15.0	14	2687	8.8
7	11 698	38.4	15	3430	11.2
8	3330	10.9	16***	3527	11.6

*Hinged spill plate for transportation.

**Exhaust stack can be removed for transportation.

***Max-unladen over tire bulge.

STANDARD EQUIPMENT

- Air conditioning with R134A refrigerant
- Air vents, adjustable
- Automatic Traction Control (ATC)
- Auto shift seven-speed forward and two-speed reverse transmission
- Back up alarm
- Body, adapted for exhaust heat
- Body, including Ejector cylinder and blade with integrated spill guard
- Cat® C15 engine with ACERT™ Technology
- Cat Clean Emission Module (CEM) an exhaust aftertreatment package
- Color Multi-Purpose Display (CMPD) Incorporating the Cycle Counter and Rearview Camera Screen
- CD/Radio, heavy duty ready
- Differentials, standard with automatic clutched cross-axle and inter-axle differential locks for all axles
- Electrical system: 24 volt, 5A 24- to 12-volt converter
- Electro hydraulic hoist control
- Ether starting aid
- Glass windows, laminated and tinted, front
- Glass windows, toughened and tinted, sides and rear
- Guards: rear window, radiator, crankcase and axle
- Headlights, four
- Heater and defroster with four-speed fan
- Hinged spill guard for ease of transportation
- Horn, electric
- Lights: cab interior, front, side, rear, two reversing/working lights, two stop/tail lights, side width marker, front and rear direction indicators
- Mirrors, main and auxiliary, left and right
- Mud flaps, wheel arch and body mounted, with transportation tie backs
- Oil-cooled brakes, enclosed
- Operator and passenger grab hand rails
- Product Link
- Retarder, Engine compression brake
- ROPS/FOPS cab, with full instrumentation, including:
 - Instrument cluster display module
 - Indicator lamps: left turn, secondary steering, primary steering loss, front and rear brake temp (735B/740B and 740B Ejector only), brake oil pressure, action lamp, transmission fault, park brake, charging system status, differential lock, body not in float, right turn, high beam, transmission hold, machine filter warning, retarder, retarder up shift warning
 - Gauges: engine oil pressure, engine coolant temperature, torque converter oil temperature, fuel level, fuel tank level gauge
 - LCD warnings/indicators: Gear, Alert, Speed, Soot, DPF Regeneration, Engine hours, Primary Steer, 2nd Steer, Machine Security (MSS), Retarder
 - Meters: service hour meter, speedometer, tachometer
- Seat, fully adjustable, air suspension
- Seat, padded passenger
- Secondary steering – electronic
- S-O-SSM sampling valves
- Starting receptacle, electric, remote
- Storage – two cup holders, flask receptacle, under seat storage, door pocket, behind seat storage, coat hook
- Sun visor
- Tailgate, hydraulic automatic
- Three-axle, six wheel drive
- Tilt and telescopic steering wheel
- Tires, 29.5R25, radial
- Towing eyes, front and rear tow pin
- Two seat belts, retractable
- Vandalism protection: lockable caps for fuel tank and hydraulic oil tank
- Windows opening side, tinted
- Windshield wiper and washer, two speed, intermittent (front)
- Windshield wiper and washer, two speed, (rear)

OPTIONAL EQUIPMENT

- Autolube installation for automatic greasing of bearings
- Cab roof mounted headlamps
- CD/Radio, heavy duty
- Cold Weather Coolant (-51° C/-59.8° F)
- Cold weather start attachment
- Engine Block Heater
- Exhaust heated body
- Extensions, fender
- Fast fuel fill
- Flashing LED Beacon
- Fuel Additive – Anti-Waxing
- Heated rearview motorized mirrors
- Heated seats
- Product Link PL 321, PL 522 and PL 523 (where available)
- Machine Security System (MSS)

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

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