



Cat[®] 740B with Side Boards

Articulated Truck

NEW FEATURES:

- C15 Engine with ACERT™ Technology meeting Tier 2/EU Stage II engine emission regulations
- Controlled Throttle Shift (CTS) Transmission
- Automatic Traction Control (ATC)
- Passenger grab handles
- Floor-mounted accelerator pedal
- Park brake switch – guarded by raised dash moldings
- Dash dimmer switch
- Headliner with radio 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 heated mirrors (optional)

Dump truck conceived to be used in off-road conditions, with nominal payload of 40 metric tons (tonnes)

Specifications

Engine

Engine Model	Cat [®] C15 ACERT™	
Gross Power – SAE J1995	361 kW	484 hp
Net Power – SAE J1349	352 kW	472 hp
Net Power – ISO 9249	356 kW	477 hp
Net Power – EEC 80/1269	356 kW	477 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 318 kW (426 hp) per the SAE reference conditions.
- The 740B meets EPA Tier 2/EU Stage II emission specifications for the U.S./Canada and European countries.
- No engine derating required below 3050 m (10,000 ft).
- Peak engine torque gross (SAE J1995) 2508 N-m (1,850 lb-ft)
- Peak engine torque net (SAE J1349) 2460 N-m (1,814 lb-ft)
- Peak engine torque speed (1,200 rpm)

Weights

Nominal Payload	40.0 tonnes	44.1 tons
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Body Capacities

Heaped SAE 2:1	28.4m ³	37.1 yd ³
Struck	22.9m ³	30.0 yd ³
Tailgate Heaped SAE 2:1	29.9m ³	39.1 yd ³
Tailgate Struck	23.9m ³	31.3 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	20 833 kg	45,929 lb
Center Axle – Empty	7231 kg	15,942 lb
Rear Axle – Empty	6501 kg	14,332 lb
Total – Empty	34 566 kg	76,205 lb
Front Axle – Rated Load	5266 kg	11,610 lb
Center Axle – Rated Load	17 367 kg	38,288 lb
Rear Axle – Rated Load	17 367 kg	38,288 lb
Total – Rated Load	40 000 kg	88,185 lb
Front Axle – Loaded	26 099 kg	57,538 lb
Center Axle – Loaded	24 598 kg	54,229 lb
Rear Axle – Loaded	23 869 kg	52,622 lb
Total – Loaded	74 566 kg	164,390 lb

Body Plate Thickness

Front	8 mm	0.31 in
Scow	16 mm	0.63 in
Side	12 mm	0.47 in
Base	16 mm	0.63 in

Service Refill Capacities

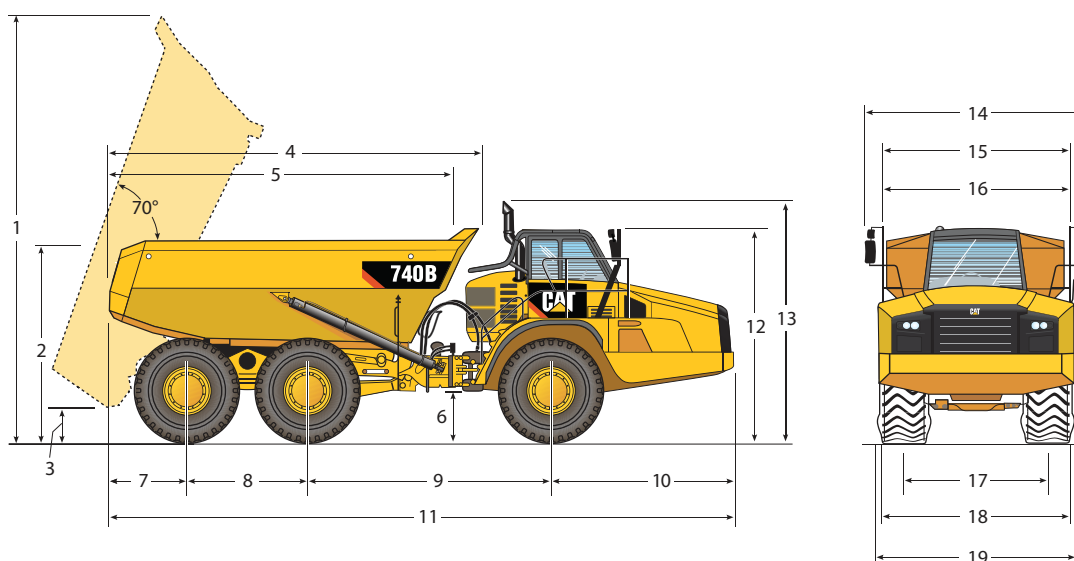
Fuel Tank	560 L	148 gal
Cooling System	80 L	21.1 gal
Hydraulic System	328 L	86.6 gal
Engine Crankcase	38 L	9.5 gal
Transmission	72 L	19 gal
Final Drives/Differential	72 L	19 gal
Output Transfer Gear Box	18 L	4.8 gal

Body Hoist

Raise time	12 Seconds
Lower time	7 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	7092	23.4	11	11 000	36.1
2	3489	11.4	12	3745	12.3
3	697	2.3	13**	4039	13.3
4	6288	20.6	14	4160	13.6
5*	5734	18.8	15***	3780	12.4
6	577	1.8	16	3418	11.2
7	1458	4.7	17	2687	8.8
8	1966	6.4	18	3430	11.2
9	4246	13.9	19****	3520	11.5
10	3330	10.9			

*Inside of body.

**Exhaust stack can be removed for transportation.

***If equipped with a scissor tailgate.

****Max-unladen over tire bulge.

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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
- Cat® C15 engine with ACERT™ Technology
- 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
- 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 center axle brake temp (735B/740B and 740B Ejector only), brake oil pressure, action lamp, transmission fault, park brake, charging system status, differential lock fault, 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
- Spill guard, front, integral part of fabricated body
- Starting receptacle, electric, remote
- Storage – two cup holders, flask receptacle, under seat storage, door pocket, behind seat storage, coat hook
- Sun visor
- 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
- Body liners
- CD/Radio, heavy duty with auxiliary input
- 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)
- Roof mounted work lights
- Long wheel base rear chassis (OEM)
- Machine Security System (MSS)
- Tailgate:
 - Scissor-type

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