



730 EJ

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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730 EJ Articulated Truck Specifications

Engine

Engine Model	Cat® C13B	
Gross Power (SAE J1995)	280 kW	375 hp
Net Power (SAE J1349)	274 kW	367 hp
Engine (ISO 14396)	276 kW	370 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	763 in ³

- Advertised power is tested at 1,800 rpm.
- The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, aftertreatment and fan at minimum speed.
- Net power when the fan is at maximum speed is 262 kW (351 hp) per the SAE reference conditions.
- Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
- Diesel exhaust fluid (DEF) used in Cat SCR systems must meet the requirements outlined in ISO 22241-1:2006. ISO 22241-1 requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

No Engine Derating Required Below	2896 m	9,500 ft
Peak Engine Torque Gross (SAE J1995:2014)	2141 N·m	1,579 lbf-ft
Peak Engine Torque Net (SAE J1349:2011)	2120 N·m	1,564 lbf-ft
Peak Engine Torque Speed	1200 rpm	

Weights

Rated Payload	27.1 tonnes	30 tons
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Body Capacities

Heaped SAE 2:1	16.9 m ³	22.1 yd ³
Struck	13.5 m ³	17.7 yd ³

Transmission

Forward 1	8 km/h	5 mph
Forward 2	15 km/h	9 mph
Forward 3	22 km/h	14 mph
Forward 4	34 km/h	21 mph
Forward 5	47 km/h	29 mph
Forward 6	55 km/h	34 mph
Reverse 1	9 km/h	6 mph

Sound Levels

Interior Cab	72 dB(A)
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- 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 doors/windows open for extended periods or in noisy environments.

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Operating Weights

Front Axle – Empty	15 130 kg	33,356 lb
Center Axle – Empty	5610 kg	12,368 lb
Rear Axle – Empty	5370 kg	11,839 lb
Total – Empty	26 110 kg	57,563 lb
Front Axle – Rated Load	650 kg	1,433 lb
Center Axle – Rated Load	13 225 kg	29,156 lb
Rear Axle – Rated Load	13 225 kg	29,156 lb
Total – Rated Load	27 100 kg	59,745 lb
Front Axle – Loaded	15 780 kg	34,789 lb
Center Axle – Loaded	18 835 kg	41,524 lb
Rear Axle – Loaded	18 595 kg	40,995 lb
Total – Loaded	53 210 kg	117,308 lb

Body Plate

High-strength Brinell HB450 wear resistant steel

Blade Eject/Retract

Eject Time	12 seconds
Retract Time	15 seconds

Service Refill Capacities

Fuel Tank	400 L	106.0 gal
Diesel Exhaust Fluid (DEF) Tank	34 L	9.0 gal
Cooling System	83 L	21.9 gal
Hydraulic System	123 L	32.5 gal
Engine Crankcase	43 L	11.4 gal
Transmission	47 L	12.4 gal
Final Drives/Differential	125 L	33 gal
Output Transfer Gear Box	25 L	6.6 gal

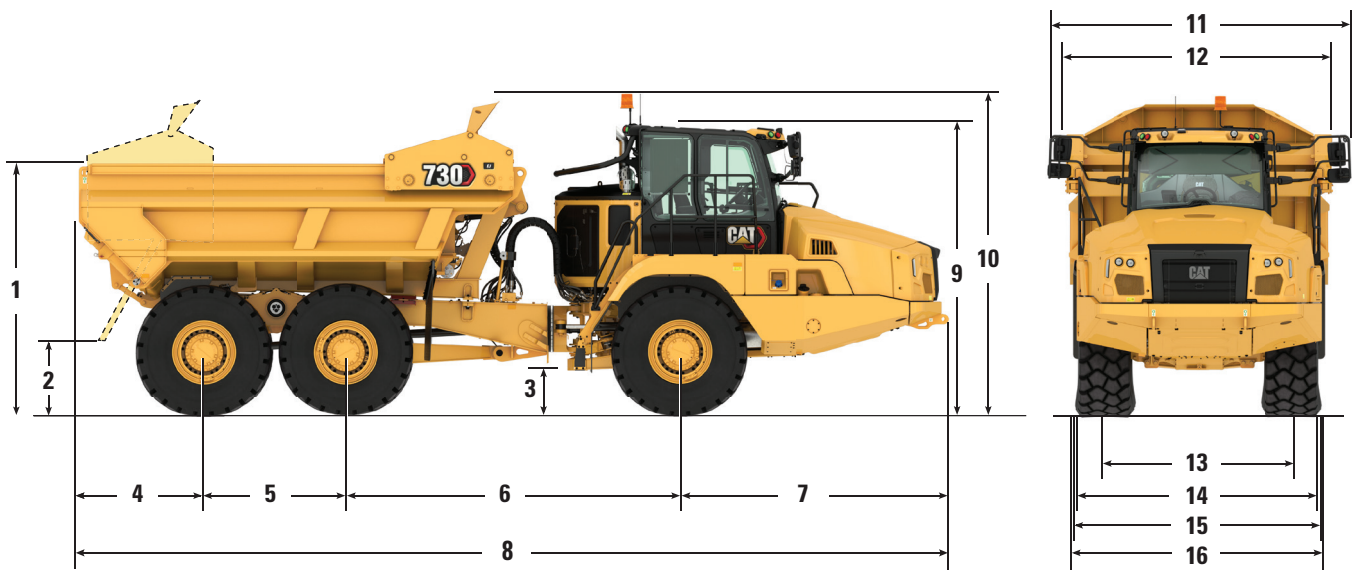
Standards

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

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Dimensions

All dimensions are approximate.



	mm	ft/in
1 Load over Height	3024	9'11"
2 Ground Clearance to Body Height	884	2'11"
3 Ground Clearance	516	1'8"
4 Rear Axle Center to Body Rear	1487	4'11"
5 Mid Axle to Rear Axle Center	1700	5'7"
6 Mid Axle to Front Axle (Centers)	3979	13'1"
7 Front Axle Center to Machine Front	3210	10'6"
8 Overall Length	10 376	34'0"
9 Ground Height to Top of Cab	3474	11'5"
10 Height Transport Position	3750	12'3"
11 Overall Width	3251	10'8"
12 Body Width	3251	10'8"
13 Track Width	2275	7'6"
14 Width over Fenders	2950	9'8"
15 Width over Free Tire	3013	9'11"
16 Max Laden over Tire Bulge	3082	10'1"

730 EJ Articulated Truck Specifications

Turning Circle

Dimensions are for machines equipped with 750/65 R25 tires.

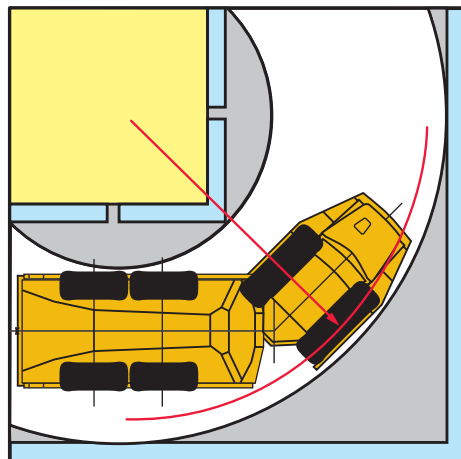
Turning Dimensions

Steer Angle – From Center Left/Right	45°	
SAE Turning Radius	7470 mm	294 in
Clearance Radius	8075 mm	318 in
Inside Radius	3749 mm	148 in
Aisle Width	5424 mm	214 in

Steering

Lock to Lock

4.75 seconds @ 60 rpm



Optimal Loader/Truck Pass Matching

Hydraulic Excavators	350/352		336	
Passes	4-5		5-6	
Wheel Loaders	972/972 XE	966/966 XE	962	950
Passes	3-4	4	4-5	5

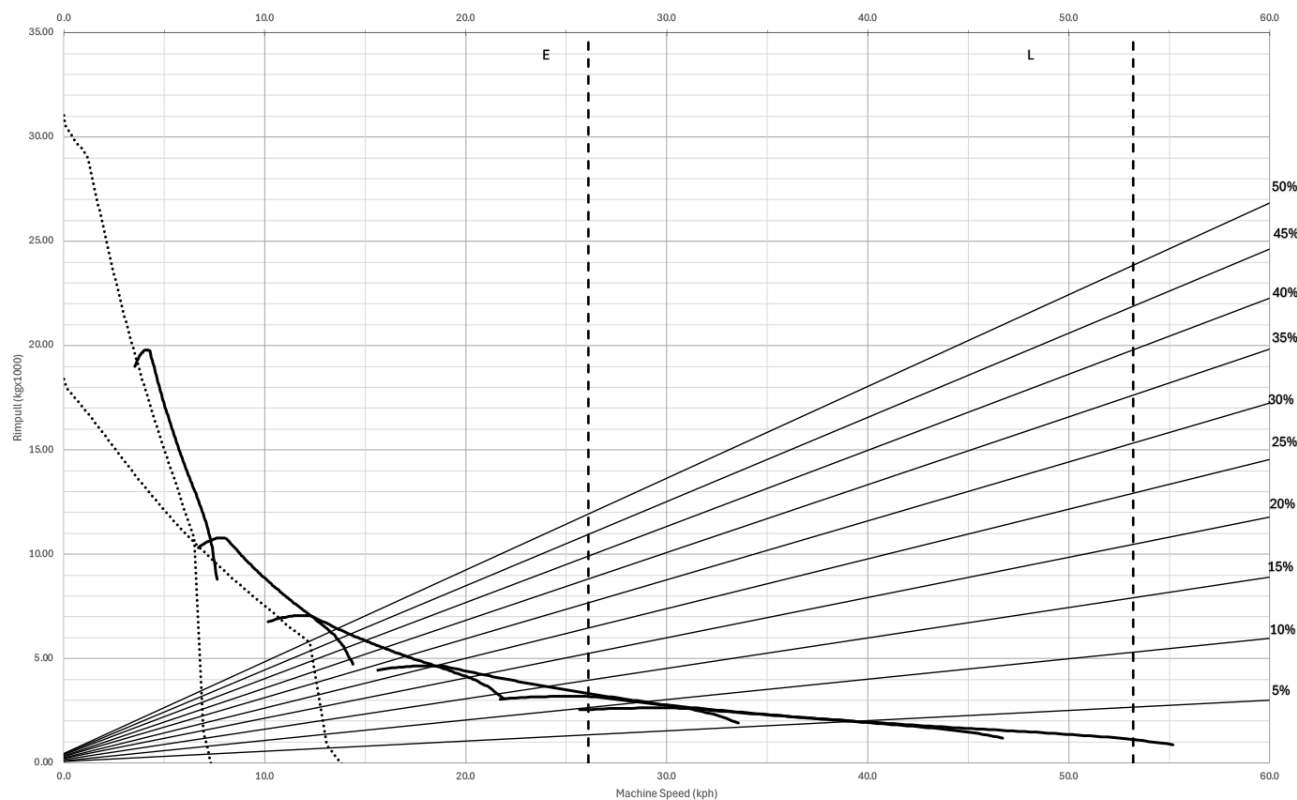
An optimum system match gives you a major productivity advantage. The 730 EJ is an excellent match for the Cat 350/352 and 336 Hydraulic Excavators; and Cat 972, 966, 962 and 950 Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

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Gradeability/Speed/Rimpull

To determine performance, read from 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 Maximum Speed. Usable Rimpull depends on traction available.

MACHINE MASS (KG X 1000)



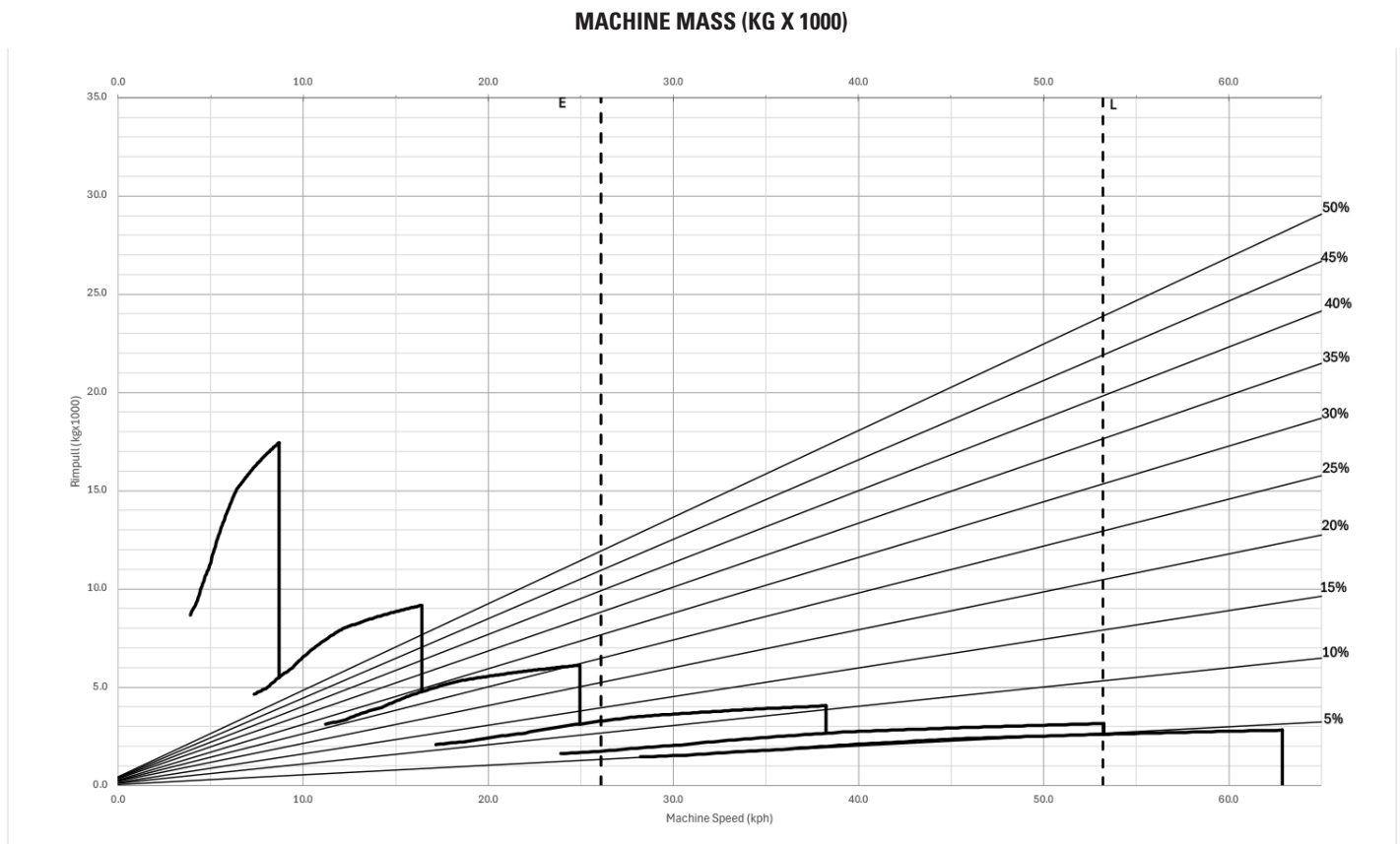
- 1A – 1st Gear (Converter Drive)
- 1B – 1st Gear (Direct Drive)
- 2A – 2nd Gear (Converter Drive)
- 2B – 2nd Gear (Direct Drive)
- 3 – 3rd Gear
- 4 – 4th Gear
- 5 – 5th Gear
- 6 – 6th Gear

E – Empty 26 110 kg (57,563 lb)
L – Loaded 53 210 kg (117,308 lb)
* at sea level

730 EJ Articulated Truck Specifications

Retarding Performance

To determine performance, read from Gross 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 Maximum 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

- E – Empty 26 110 kg (57,563 lb)
- L – Loaded 53 210 kg (117,308 lb)

730 EJ Articulated Truck Standard & Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN		
Air conditioning	✓		Auto shift six-speed forward and single-speed reverse transmission	✓	
Combined gear selection and eject control lever	✓		Cat C13A engine	✓	
Liquid crystal display (LCD)	✓		CX31 transmission	✓	
10-inch touchscreen display with Cat® rearview camera	✓		Cat Clean Emission Module (CEM) and exhaust aftertreatment package	✓	
Mirrors: exterior	✓		Differentials: standard with automatic clutched inter- and cross-axle differential locks	✓	
Mirrors, heated motorized		✓	Dual circuit oil immersed, enclosed brakes – all wheels	✓	
Machine operation monitoring system	✓		Automatic Retarder: engine compression brake	✓	
Operator seat belt, four-point		✓	Three axle, six-wheel drive	✓	
Radio, Bluetooth® stereo system		✓	SAFETY		
Seats: operator – fully adjustable, air suspension, retractable lap belt; trainer – padded with retractable lap belt	✓		Body Height Limiting	✓	
Seat, heated/cooled		✓	Dynamic Rollover Protection	✓	
Secondary steering – electro-hydraulic	✓		Machine Speed Limiting	✓	
Sun visor	✓		Multi-view camera with object detect		✓
Tilt and telescopic steering wheel	✓		Reverse alarm	✓	
Touchscreen display incorporating the rearview camera video feed	✓		Rearview camera	✓	
Windshield wiper and washer, two-speed, intermittent (front)	✓		Rollover protective structure/falling objects protective structure (ROPS/FOPS) cab	✓	
TECHNOLOGY			GUARDS		
Cat Detect with Stability Assist	✓		Crankcase	✓	
Cat Payload monitoring system		✓	Front dump body spill guard, integral part of fabricated body	✓	
Operator Coaching		✓	Radiator	✓	
Product Link™: Cellular PLE643	✓		Rear window	✓	
Product Link: Dual PLE683		✓	OTHER		
VisionLink™	✓		Auto lube installation for automatic greasing of bearings		✓
ELECTRICAL AND LIGHTING			Cold weather coolant -51°C (-60°F)		✓
Batteries (x2) maintenance free	✓		Collision Avoidance Ready*		✓
Cold weather start attachment (2 additional batteries)		✓	Exhaust heated body		✓
Daylight Running Lights	✓		Fast fuel fill		✓
LED Rear Step Lights	✓		Fuel additive – anti-waxing		✓
LED Rear Work Lights		✓	Mud flaps: wheel arch and body mounted with transportation tiebacks	✓	
Electrical system: 24-volt, 10A 24- to 12-volt converter	✓		Hydraulic tailgate	✓	
Engine block heater		✓	S-O-S SM sampling valves	✓	
Ether start		✓	Sound suppression (standard in some countries*)	✓	
Flashing LED beacon		✓	Tires, six 750/65 R25 radial	✓	
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	✓		Vandalism protection: lockable caps	✓	
Main disconnect switch	✓		Wheel chocks		✓
Roof-mounted LED work lights		✓			

* Countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK.

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C13B engine meets U.S. EPA Tier 4 Final/EU Stage V, Japan 2014, and Korea Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)***
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil and GTL (gas-to- liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.

** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

Interior Cab	72 dB(A)
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Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Economy mode minimizes fuel consumption without impacting productivity
 - Optimize airflow and enhance power and fuel efficiency with innovative air-management systems
 - Maximize uptime and reduce cost with world-class support from the Cat dealer network
 - Uniquely combined hoist and transmission level allows for easy, intuitive control and cuts operator interaction by as much as 50%
 - Cat Production Measurement provides real-time payload weighing which help you maximize productivity, reduce fuel burn and greenhouse gas emissions, all while improving job site efficiency and lowering costs



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基準適合

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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