

Product Specifications For 772 (07)



Operating Specifications

Nominal Payload Class (100%)	46.8 t
Top Speed - Loaded	79.7 km/h
Target Payload (100%)	47.2 t
Maximum Working Payload (110%)	51.4 t
Maximum Allowable Payload (120%)*	56.1 t
Body Capacity (SAE 2:1)**	31.2 m ³
Note	*Refer to the Caterpillar 10/10/20 Payload Policy for maximum gross machine weight limitations.
Note (1)	**ISO 6483:1980.
Note (2)	Capacity with Dual Slope body with no liner.

Engine

Engine Model	Cat® C18 ACERT™
Rated Engine Speed	1700 r/min
Gross Power - SAE J1995:2014	451 kW
Net Power - SAE J1349:2011	410 kW
Net Power - ISO 9249	410 kW

Net Power - 80/1269/EEC 410 kW

Engine Power - ISO 14396 446 kW

Net Torque - SAE J1349 3012 N·m

Number of Cylinders 6

Bore 145 mm

Stroke 183 mm

Displacement 18.1 l

Note (1) Power rating applies at 1,800 rpm when tested under the specified condition for the specified standard.

Note (2) Ratings based on SAE J1995 standard air conditions of 25° C (77° F) and 100 kPa (29.61 Hg) barometer. Power based on fuel having API gravity of 35 at 16° C (60° F) and an LHV of 42 780 kJ/kg (18,390 BTU/lb) when engine used at 30° C (86° F).

Note (3) No engine derating required up to 3000 m (9,843 ft) altitude.

Note (4) Available as Tier 3/Stage IIIA equivalent, OR Tier 2/Stage II equivalent emission standards.

Note (5) Meets China Nonroad Stage III emission standards equivalent to U.S. EPA Tier 3 or U.S. EPA Tier 2.

Weights - Approximate

Target Gross Machine Operating Weight 82100 kg

Chassis Weight 26863 kg

Body Weight 8258 kg

Note (1) Chassis weight with 100% fuel, hoist, body mounting group, rims and tires.

Note (2) Body weight is the standard Dual Slope body with no liner and will vary depending on configuration.

Target Gross Machine Weight 82100 kg

Brakes

Brake Surface - Front 1395 cm²

Brake Surface - Rear 50281 cm²

Brake Standards ISO 3450:2011

Body Hoists

Pump Flow - High Idle 425 l/min

Relief Valve Setting - Raise 18950 kPa

Relief Valve Setting - Lower 3450 kPa

Body Raise Time - High Idle 8 s

Body Lower Time - Float 10 s

Body Power Down - High Idle 10 s

Capacity - Dual Slope - 100% Fill Factor

Struck 23.9 m³

Heaped (SAE 2:1)* 31.2 m³

Note (1) Contact your local Cat dealer for body recommendation.

Note (2)

*ISO 6483:1980.

Capacity - Flat Floor - 100% Fill Factor

Struck 23.9 m³

Heaped (SAE 2:1)* 31.3 m³

Note (1)

Contact your local Cat dealer for body recommendation.

Note (2)

*ISO 6483:1980.

Weight Distributions - Approximate

Front Axle - Empty 51.4 %

Front Axle - Loaded 34.2 %

Rear Axle - Empty 48.6 %

Rear Axle - Loaded 65.8 %

Suspension

Empty Loaded Cylinder Stroke Front 234 mm

Empty Loaded Cylinder Stroke Rear 149 mm

Rear Axle - Oscillation 8.9°

Service Refill Capacities

Fuel Tank 530 l

Cooling System 125 l

Crankcase 64 l

Differential - Final Drives 180.1 l

Steering Tank	55 l
Steering System - Includes Tank	87.01 l
Brake/Hoist Hydraulic Tank	176 l
Brake Hoist System	227 l
Torque Converter - Transmission System	64.01 l

Steering

Steering Standards	SAE J1511 FEB94 ISO 5010:2007
Steer Angle	40.5°
Turning Diameter - Front	17.6 m
Turning Circle - Clearance Diameter	20.3 m

Tires

Standard Tire 21.00R33 (E4)

Note (1) Productive capabilities of the 772G truck are such that, under certain job conditions, TKPH (TMPH) capabilities of standard or optional tires could be exceeded and, therefore, limit production.

Note (2) Caterpillar recommends the customer evaluates all job conditions and consults the tire manufacturer for proper tire selection.

Transmission

Forward - 1	12.8 km/h
Forward - 2	17.5 km/h
Forward - 3	23.7 km/h
Forward - 4	31.9 km/h

Forward - 5 43.3 km/h

Forward - 6 58.4 km/h

Forward - 7 79.2 km/h

Reverse 16.8 km/h

Note Maximum travel speeds with standard 21.00R33 (E4) tires.

Final Drives

Differential Ratio 2.74:1

Planetary Ratio 4.80:1

Total Reduction Ratio 13.14:1

ROPS

ROPS Standards Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 ROPS criteria.

FOPS Standards Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria.

Dimensions (Approximate)

Overall Tire Width 3907 mm

Loading Height - Empty 3570. mm

Overall Length 8808 mm

Operating Width 4780 mm

Centerline of Rear Dual Tire Width 2652 mm

Inside Body Length 5781 mm

Rear Axle - Clearance	572 mm
Centerline Front Tire Width	3165 mm
Ground Clearance	618 mm
Front Canopy Height	4159 mm
Rear Axle - Tail	2598 mm
Overall Height - Body Raised	8257 mm
Height - Top of ROPS	3907. mm
Outside Body Width	3931 mm
Overall Body Length	8164 mm
Inside Body Width	3642 mm
Engine Guard Clearance	618 mm
Wheel Base	3960 mm
Inside Body Depth - Maximum	1747 mm
Dump Clearance	562 mm

772 (07) Standard Equipment

NOTE

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

ELECTRICAL

Alarm, backup

Alternator, 115 ampere

Auxiliary jump start receptacle

Batteries, maintenance-free, 12V (2), 190 amp-hour

Electrical system, 24V

Lighting system: - Backup light (halogen) - Directional signals/hazard warning (front and rear LED) - Headlights, (halogen) with dimmer - Operator access courtesy lights (Developing Market Only)

PRODUCT LINK COMMUNICATIONS

Product Link Ready

GUARDS

Driveline

Engine crankcase

OPERATOR ENVIRONMENT

Air conditioning (Developing Market Only)

Ashtray and cigarette lighter

Coat hook

Cup holders (4)

Diagnostic connection port, 24V

Entertainment Radio Ready: - 5 amp converter - Speakers - Antenna - Wiring harness

Gauges/indicators: - Air cleaner service indicator - electronic - Brake oil temperature gauge - Coolant temperature gauge - Hour meter - Tachometer - Engine overspeed indicator - Fuel level - Speedometer with odometer - Transmission gear indicator

Heater/defroster (11 070 kCal/43,930 BTU)

Hoist lever

Horn, electric

Light - dome

Light - courtesy

Messenger, display unit

Mirrors

Power port, 12V

ROPS cab, insulated/sound suppressed

Seat, Cat Comfort: - Full air suspension - Retractable 3 point seat belt with shoulder harness

Seat, training with lap belt

Steering wheel, padded, tilt and telescopic

Storage compartment

Sun visor, tinted glass

Throttle lock

Windshield wiper (intermittent) and washer

POWER TRAIN

Air-To-Air Aftercooler (ATAAC)

Air cleaner with precleaner (1)

Automatic cold mode idle control

Electric start

Turbocharger

Braking system, hydraulic actuated: - Automatic Retarder Control (ARC) (utilizes rear oil-cooled, multiple disc brakes) - Brake release motor (towing) - Caliper-disc (front) - Extended Life Brakes - Oil-cooled, multiple disc (rear) - Parking - Secondary - Service

Transmission: - 7 speed automatic powershift - Body up-shift inhibitor - Controlled throttle shifting - Directional shift management - Downshift inhibitor - Neutral start switch - Neutral coast inhibitor - Reverse shift inhibitor - Reverse neutralizer during dumping - Programmable top gear selection

SUSPENSION SYSTEMS

Suspension, front and rear

OTHER STANDARD EQUIPMENT

Body safety pin (secures body in up position)

Body down indicator

CD ROM parts book

Fan, hydraulic demand

Fuel tank (530 L/140 gal)

Guard, engine compartment

Guard, mud

Ground level battery disconnect

Ground level engine shutdown

Ground level grease fittings

Reservoirs (separate): - Brake/converter/hoist - Steering - Transmission/torque converter

Rims 15 × 33

Rock ejectors

Service platform, left and right side

Supplemental steering (automatic)

Tie down eyes

Tow hooks (front)/Tow pin (rear)

Vandalism protection locks

ANTIFREEZE

Extended Life Coolant to -35° C (-30° F)

772 (07) Optional Equipment

NOTE

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

OPTIONAL EQUIPMENT

Traction Control System (TCS)

Cat Engine Brake

Cat C18 ACERT diesel engine as: Tier 2/Stage II equivalent, OR Tier 3/Stage IIIA equivalent

Body heat

Diverter box

4 batteries

HID lights

Truck Production Management System

Cab heat

Cab air conditioning

Product Link

Backup alarm

Heated mirrors

Fuel heater

Ether aid

Coolant heater

Auto lube

Rear vision camera (WAVS)

Spare rims

Wheel chocks

Body sideboards