

# PRODUCT SPECIFICATIONS FOR 772 (07)



## ENGINE

|                                 |   |
|---------------------------------|---|
| <b>Engine Model</b>             | Cat® C18 ACERT™   |
| <b>Rated Engine Speed</b>       | 1700 r/min  |
| <b>Gross Power - SAE J1995</b>  | 451 kW  |
| <b>Net Power - SAE J1349</b>    | 410 kW  |
| <b>Net Power - ISO 9249</b>     | 410 kW  |
| <b>Net Power - 80/1269/EEC</b>  | 410 kW  |
| <b>Engine Power - ISO 14396</b> | 446 kW  |
| <b>Net Torque - SAE J1349</b>   | 3012 N·m  |
| <b>Number of Cylinders</b>      | 6   |
| <b>Bore</b>                     | 145 mm  |
| <b>Stroke</b>                   | 183 mm  |
| <b>Displacement</b>             | 18.1 l  |
| <b>Note (1)</b>                 | 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

## 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<sup>3</sup>

**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.

## 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

## BRAKES

|                       |                       |
|-----------------------|-----------------------|
| Brake Surface - Front | 1395 cm <sup>2</sup>  |
| Brake Surface - Rear  | 50281 cm <sup>2</sup> |
| Brake Standards       | ISO 3450:1996         |

## 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 m <sup>3</sup>                                    |
| Heaped (SAE 2:1)* | 31.2 m <sup>3</sup>                                    |
| Note (1)          | Contact your local Cat dealer for body recommendation. |

Note (2) \*ISO 6483:1980.

## CAPACITY - FLAT FLOOR - 100% FILL FACTOR

|                   |  |
|-------------------|--|
| Struck            | 23.9 m <sup>3</sup>                                    |
| Heaped (SAE 2:1)* | 31.3 m <sup>3</sup>                                    |
| 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

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

# TIRES

|                      |   |
|----------------------|---|
| <b>Standard Tire</b> | 21.00R33 (E4)   |
| <b>Note (1)</b>      | 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. |
| <b>Note (2)</b>      | Caterpillar recommends the customer evaluates all job conditions and consults the tire manufacturer for proper tire selection.  |

# ROPS

|                       |  |
|-----------------------|--|
| <b>ROPS Standards</b> | Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 ROPS criteria. |
| <b>FOPS Standards</b> | Falling Objects Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria.                |

# DIMENSIONS (APPROXIMATE)

|   |         |
|---|---------|
| <b>Overall Tire Width</b>                 | 3907 mm |
| <b>Loading Height - Empty</b>             | 3570 mm |
| <b>Overall Length</b>                     | 8808 mm |
| <b>Operating Width</b>                    | 4780 mm |
| <b>Centerline of Rear Dual Tire Width</b> | 2652 mm |

|                                     |         |
|-------------------------------------|---------|
| <b>Inside Body Length</b>           | 5781 mm |
| <b>Rear Axle - Clearance</b>        | 572 mm  |
| <b>Centerline Front Tire Width</b>  | 3165 mm |
| <b>Ground Clearance</b>             | 618 mm  |
| <b>Front Canopy Height</b>          | 4159 mm |
| <b>Rear Axle - Tail</b>             | 2598 mm |
| <b>Overall Height - Body Raised</b> | 8257 mm |
| <b>Height - Top of ROPS</b>         | 3907 mm |
| <b>Outside Body Width</b>           | 3931 mm |
| <b>Overall Body Length</b>          | 8164 mm |
| <b>Inside Body Width</b>            | 3642 mm |
| <b>Engine Guard Clearance</b>       | 618 mm  |
| <b>Wheel Base</b>                   | 3960 mm |
| <b>Inside Body Depth - Maximum</b>  | 1747 mm |
| <b>Dump Clearance</b>               | 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