

# PRODUCT SPECIFICATIONS FOR 773G

US      Metric

**Engine Model**                      Cat® C27

**Rated Engine Speed**              1800 r/min

**Gross Power - SAE J1995**        775 HP

**Net Power - SAE J1349**         719 HP

**Net Power - ISO 9249**            762 HP

**Net Power - 80/1269/EEC**       762 HP

**Bore**                                  5.4 in

**Stroke**                                6 in

**Displacement**                    1648 in<sup>3</sup>

**Note (1)**                              Power rating applies at 2,000 rpm when tested under the specified condition for the specified standard.

**Engine Power - ISO 14396**       764 HP

**Peak Torque - Speed**            1200 r/min

**Net Torque**                         3148 ft-lb

**Note (3)**                              No engine derating required up to 3048 m (10,000 ft) for Tier 4/Stage V.

**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).

**Maximum Gross Vehicle Weight**

226501 lb

**Nominal Payload Class  
(100%)**

61 ton (US)

**Top Speed - Loaded**

41.6 mile/h

**Note (2)**

\* Refer to the Caterpillar 10/10/20 Payload Policy for maximum gross machine weight limitations.

**Maximum Working Payload  
(110%)**

67.1 ton (US)

**Note (1)**

Capacity with Dual Slope body – no liner.

**Body Capacity - SAE 2:1**46.8 yd<sup>3</sup>**Target Payload (100%)**

61 ton (US)

**Maximum Allowable Payload  
(120%)\***

73.2 ton (US)

**Forward - 1**

6.6 mile/h

**Forward - 2**

9.3 mile/h

**Forward - 3**

12.6 mile/h

**Forward - 4**

16.8 mile/h

<b>Forward - 5</b>	22.8 mile/h
<b>Forward - 6</b>	30.7 mile/h
<b>Forward - 7</b>	41.6 mile/h
<b>Reverse</b>	8.7 mile/h
<b>Note</b>	Maximum travel speeds with standard 24.00R35 (E4) tires.
<b>Differential Ratio</b>	3.64:1
<b>Planetary Ratio</b>	4.80:1
<b>Total Reduction Ratio</b>	17.49:1
<b>Brake Surface - Front</b>	257 in <sup>2</sup>
<b>Brake Surface - Rear</b>	9497 in <sup>2</sup>
<b>Brake Standards</b>	ISO 3450:2011
<b>Pump Flow - High Idle</b>	118 gal/min
<b>Relief Valve Setting - Raise</b>	2502 psi
<b>Relief Valve Setting - Lower</b>	500 psi
<b>Body Raise Time - High Idle</b>	10 s
<b>Body Lower Time - Float</b>	14 s
<b>Body Power Down - High Idle</b>	14 s

**Struck** 35.13 yd<sup>3</sup>

**Heaped (SAE 2:1)\*** 46.76 yd<sup>3</sup>

**Note (2)** \* ISO 6483:1980.

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

**Struck** 34.33 yd<sup>3</sup>

**Note (2)** \* ISO 6483:1980.

**Heaped (SAE 2:1)\*** 46.41 yd<sup>3</sup>

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

**Front Axle - Empty** 53 %

**Front Axle - Loaded** 35 %

**Rear Axle - Empty** 47 %

**Rear Axle - Loaded** 65 %

**Rear axle - Oscillation** 8.1 °

**Empty Loaded Cylinder Stroke Rear** 5.8 in

**Empty Loaded Cylinder Stroke Front** 9.2 in

<b>Fuel Tank</b>	210 gal (US)
<b>Cooling System</b>	45 gal (US)
<b>Differential - Final Drives</b>	38 gal (US)
<b>Steering Tank</b>	9.5 gal (US)
<b>Steering System - Including Tank</b>	14 gal (US)
<b>Torque Converter - Transmission System - HRC</b>	18 gal (US)
<b>Crankcase</b>	24 gal (US)
<b>Brake Hoist System</b>	85 gal (US)
<b>Brake/Hoist Hydraulic Tank</b>	46.5 gal (US)
<b>Note (1)</b>	Productive capabilities of the 773G 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 evaluate all job conditions and consult the tire manufacturer for proper tire selection.
<b>Standard Tire</b>	24.00R35 (E4)
<b>FOPS Standards</b>	Falling Object Protective Structure (FOPS) meets ISO 3449:2005 Level II FOPS criteria.
<b>ROPS Standards</b>	Rollover Protective Structure (ROPS) for cab offered by Caterpillar meets ISO 3471:2008 ROPS criteria.
<b>Sound Standards (3)</b>	Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for

**Standards (3)** station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

**Sound Standards (2)** The exterior sound pressure level for the standard machine measured at a distance of 15 m (49 ft) according to the test procedures specified in SAE J88:2008, mid-gear moving operation is 86 dB(A).

**Sound Standards (1)** The operator Equivalent Sound Pressure Level (Leq) is 76 dB(A) when SAE J1166 FEB2008 is used to measure the value for an enclosed cab. This is a work cycle sound exposure level. The cab was properly installed and maintained. The test was conducted with the cab doors and the cab windows closed.

**Turning Diameter - Front** 77.1 ft

**Steering Standards** SAE J1511 FEB94 ISO 5010:1992

**Steer Angle** 31 °

**Turning Circle - Clearance Diameter** 85.6 ft

## 773G STANDARD EQUIPMENT

### NOTE

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

### POWER TRAIN

Cat C27 Tier 4/Stage V compliant diesel engine:

- Air cleaner with precleaner (2)
- Air-To-Air Aftercooler (ATAAC)
- Electric start
- Engine idle shutdown
- Ether starting aid
- Exhaust muffler
- NGMR radiator

For Tier 4 regions only (U.S./Canada):

- Aftertreatment system

NOx Reduction System (NRS)

Diesel Oxidation Catalyst (DOC)

- Demand fan
- MEUI-C fuel system

Braking system:

- Extended Life Brakes
- Automatic Retarder Control (ARC)

Always read the operator's manual for details on the use of this equipment.

- Manual retarder (utilizes rear oil-cooled, multiple disc brakes)
- Brake release motor (towing)
- Dry disc brakes (front)
- Front brake disconnect switch (front)
- Oil-cooled multiple disc brakes (rear)
- Brake wear indicator (rear)
- Parking brake
- Secondary brake
- Service brake

Transmission:

- 7-speed automatic powershift with:  
Electronic Clutch Pressure Control (ECPC)  
Advanced Productivity Electronic Control Strategy (APECS)

- Automatic neutral idle
- Autostall
- Second gear start

## **SUSPENSION SYSTEMS**

Suspension, front and rear

## **ELECTRICAL**

Alarm backup

Alternator, 120 Amp

Autolube power supply ready

Batteries, maintenance-free, 12V (2), 1,400 CCA combined

Electrical system, 25 Amp, 24V to 12V converter

Lighting system:

- Backup light (halogen)
- Directional signals/hazard warning (front and rear LED)
- Engine compartment light
- Headlights, (halogen) with dimmer
- Operator access courtesy lights
- Side profile lights
- Stop/tail lights (LED)

Service center containing:

- Battery jump start
- Breakers with spare fuses
- Lockout switch
- Ports, ET and VIMS
- Service lockout switch (power without engine start)

## **TECHNOLOGY PRODUCTS**

Economy Modes, standard and adaptive

Product Link, cellular or satellite

Traction Control System (TCS)

Truck Production Management System

Vital Information Management System (VIMS)



# OPERATOR ENVIRONMENT

Advisor display:

- Air cleaner service indicator
- Fluid level monitoring
- Fuel level monitoring
- Display languages (market-based)

Air conditioning/heat

Automatic temperature control

Ashtray and cigarette lighter

Coat hook

Cup holders (4)

Diagnostic connection port, 24V

Entertainment radio ready:

- 5 amp converter
- Speakers
- Antenna
- Wiring harness

Foot rest

Gauges/indicators:

- Brake oil temperature gauge
- Coolant temperature gauge
- Engine overspeed indicator
- Fuel level
- Hour meter
- Speedometer with odometer
- Tachometer
- Transmission gear indicator

Hoist lever

Horn

Light - courtesy

Light - dome

Mirrors, non-heated

Power port, 24V and 12V (2)

Rollover Protection (ROPS)/Falling Object Protection (FOPS)

Seat, Cat Comfort Series III:

- 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

Throttle lock

THROTTLE LOCK

Window, hinged, right side (emergency exit)

Window, powered, left side

Windshield wiper intermittent and washer

## **GUARDS**

Driveline

Engine crankcase

Fan

## **FLUIDS**

Antifreeze

Extended life coolant to -34° C (-30° F)

Grouped ground-level filters

## **OTHER STANDARD EQUIPMENT**

Body down indicator

Body safety pin (secures body in up position)

Center-mounted rims

Fuel tank, 795 L (210 gal)

Ground level battery disconnect

Ground level engine shutdown

Ground level grease fittings

Operator Maintenance Manual (OMM)

Rims 17 × 35

Rock ejectors

Secondary steering (electric)

Tie down eyes

Tow hooks (front)/tow pin (rear)

Vandalism protection locks





## **773G OPTIONAL EQUIPMENT**

### **NOTE**

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

### **OPTIONAL EQUIPMENT**

Body heat

Body liner

Body sideboards

Cab precleaner

Cat Engine Brake

Clustered grease fittings

Cold weather packages

Fluid fill service center

HID lights

Mirrors, convex

Mirrors, heated

Spare rim

Visibility package (meets ISO 5006 requirements)

Wheel chocks

Work Area Vision System (WAVS)