

# Product Specifications For 740 GC



## Engine

<b>Engine Model</b>	Cat® C15
<b>Gross Power (SAE J1995)</b>	452 hp
<b>Net Power (SAE J1349)</b>	439 hp
<b>Engine Power (ISO 14396)</b>	447 hp
<b>Bore</b>	5.4 in
<b>Stroke</b>	6.75 in
<b>Displacement</b>	926 in <sup>3</sup>
<b>Note (1)</b>	Advertised power is tested at 1,700 rpm.
<b>Note (2)</b>	Advertised power is tested per the specified standard in effect at the time of manufacture.
<b>Note (3)</b>	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.
<b>Note (4)</b>	Net power when the fan is at maximum speed is 327 kW (439 hp) per the SAE reference conditions.
<b>Note (5)</b>	The C15 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
<b>Note (6)</b>	Diesel exhaust fluid (DEF) used in Cat selective catalytic reduction (SCR) systems must meet the requirements outlined in ISO 22241-1. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.

<b>No Engine De-rating Below</b>	10000 ft
<b>Peak Engine Torque Gross (SAE J1995)</b>	1711 lbf·ft
<b>Peak Engine Torque Net (SAE J1349)</b>	1670 lbf·ft
<b>Peak Engine Torque Speed</b>	1200 r/min

## Weights

<b>Rated Payload</b>	40 ton (US)
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## Body Capacities

<b>Heaped (SAE 2:1)</b>	29.7 yd <sup>3</sup>
<b>Struck</b>	23.2 yd <sup>3</sup>
<b>Tailgate Heaped SAE 2:1</b>	32 yd <sup>3</sup>
<b>Tailgate Struck</b>	24.4 yd <sup>3</sup>

## Air Conditioning System

<b>Air Conditioning</b>	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. • If equipped with R134a (Global Warming Potential = 1430), the system contains 1.1 kg (2.4 lb) of refrigerant which has a CO2 equivalent of 1.716 metric tonnes (1.891 tons).
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## Transmission

<b>Forward - 1</b>	4 mile/h
<b>Forward - 2</b>	5.3 mile/h
<b>Forward - 3</b>	7.3 mile/h

<b>Forward - 4</b>	9.2 mile/h
<b>Forward - 5</b>	12.2 mile/h
<b>Forward - 6</b>	14.9 mile/h
<b>Forward - 7</b>	20.6 mile/h
<b>Forward - 8</b>	24.7 mile/h
<b>Forward - 9</b>	35.7 mile/h
<b>Reverse - 1</b>	4.2 mile/h
<b>Reverse - 2</b>	9.8 mile/h

## Sound Levels

<b>Interior Cab</b>	72 dB(A)
<b>Note (1)</b>	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.
<b>Note (2)</b>	Hearing protection may be needed when operating with an open operator station and cab or when not properly maintained or with doors/windows open for extended periods or in noisy environments.

## Operating Weights

<b>Front Axle - Empty</b>	43200 lb
<b>Center Axle - Empty</b>	14804 lb
<b>Rear Axle - Empty</b>	14562 lb
<b>Total - Empty</b>	72565 lb

Front Axle - Rated Load	7002 lb
Center Axle - Rated Load	36513 lb
Rear Axle - Rated Load	36513 lb
Total - Rated Load	80027 lb
Front Axle - Loaded	50201 lb
Center Axle - Loaded	51317 lb
Rear Axle - Loaded	51074 lb
Total - Loaded	152593 lb

## Body Plate

Type	High strength Brinell HB450 wear resistant steel
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## Body Plate Thickness

Front Plate	0.28 in
Base Plate	0.51 in
Side Plates	0.43 in

## Service Refill Capacities

Fuel Tank	145.3 gal (US)
Cooling System	23.7 gal (US)
Brake Cooling Tank	17.7 gal (US)
Steering/Hoist Hydraulic System	36.9 gal (US)
Engine Crankcase	13.7 gal (US)

<b>Transmission - OTG</b>	19.8 gal (US)
<b>Final Drive - Each</b>	1.3 gal (US)
<b>Axles - Each</b>	15.8 gal (US)
<b>DEF Tank</b>	6.5 gal (US)

## Body Hoist

<b>Raise Time</b>	12 s
<b>Lower Time</b>	12 s

## Standards

<b>Brakes</b>	ISO 3450 – 2011
<b>Cab - FOPS</b>	ISO 3449 Level II – 2005
<b>Cab - ROPS</b>	ISO 3471 – 2008
<b>Steering</b>	ISO 5010 – 2019

## Turning Circle

<b>Turning Dimensions - Steer Angle - Left/Right</b>	45°
<b>Turning Dimensions - SAE Turning Radius</b>	303 in
<b>Turning Dimensions - Clearance Radius</b>	330 in
<b>Turning Dimensions - Inside Radius</b>	156 in
<b>Turning Dimensions - Aisle Width</b>	220 in

<b>Note</b>	Dimensions are for machines equipped with 29.5 R25 tires.
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## Steering

Lock to Lock

4.75 seconds @ 60 rpm

## Optimal Loader/Truck Pass Matching

Hydraulic  
Excavator: 374 -  
Passes 3-4

Hydraulic  
Excavator: 352 -  
Passes 5-6

Wheel Loader: 972 -  
Passes 3

Wheel Loader: 966 -  
Passes 4-5

Wheel Loader: 962 -  
Passes 5

**Note** An optimum system match gives you a major productivity advantage. The 740 GC is an excellent match for the Cat 374 and 352 Hydraulic Excavators; and Cat 972, 966, and 962 Wheel Loaders. Having matched loading and hauling tools results in increased production and lower system costs per unit of volume moved.

## 740 GC Standard Equipment

### NOTE

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

### OPERATOR ENVIRONMENT

Heater and defroster with four-speed fan

Mirrors: exterior

Glass windows:

- Front, laminated and tinted
- Sides and rear, toughened and tinted

Liquid Crystal Display (LCD):

- Alert indicator
- Selected gear and direction
- Speed or auto shift
- Operation and Maintenance Manual (OMM)
- Primary steering failure (warning)
- Seat belt warning
- Secondary steering failure
- Diesel Particulate Filter (DPF) regeneration filter
- Secondary steering energy source engaged
- Hour meter
- Retarder active

Adjustable air vents

Machine operation monitoring system includes:

- Action lamp
- Engine oil pressure
- Primary steering system
- Left and right turn signal
- High beam
- Coolant temperature
- Tachometer
- Parking brake
- Fuel level
- Transmission oil temperature
- Brake system
- Transmission hold
- Hoist control
- Hydraulic system
- Charging system
- Transmission fault
- Traction control system
- Check engine lamp

Storage:

- Cup holder
- Flask receptacle (under the secondary seat)
- Under seat storage
- Door pocket
- Behind seat storage
- Coat hook

Windows (tinted) opening both sides

Seats:

- Operator: fully adjustable, air suspension, retractable lap belt
- Trainer: padded with retractable lap belt

Combined gear selection and hoist control lever

Sun visor

Tilt and telescopic steering wheel

Secondary steering – electro hydraulic

Touchscreen display incorporating the rearview camera video feed

Air conditioning

Windshield wiper and washer, two speed, intermittent (front)

## **TECHNOLOGY**

Cat Detect with Stability Assist

Product Link Cellular PLE643

## **ELECTRICAL AND LIGHTING**

Batteries (two) maintenance free

Main disconnect switch

Remote starting receptacle (cables not included)

Electrical system: 24-volt, 10A 24- to 12-volt converter

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

Horn

## **POWERTRAIN**

Dual circuit oil immersed, enclosed brakes – all wheels

Clean Emission Module (CEM) and exhaust aftertreatment package

CX38 Transmission

Auto shift nine-speed forward and two reverse transmission

Three axle, six-wheel drive

Cat C15 engine

Retarder: engine compression brake and hydraulic

Differentials: standard with automatic clutched inter- and cross-axle differential locks

## **SAFETY**

Rearview camera

ROPS/FOPS cab

Reverse alarm

## **GUARDS**

Crankcase

Front dump body spill guard, integral part of fabricated body

Rear window

Radiator

## **OTHER STANDARD EQUIPMENT**

S-O-S sampling valves



Vandalism protection: lockable caps

Mud flaps: wheel arch and body mounted with transportation tiebacks

Tires, six 29.5 R25

Sound suppression (standard in some countries\*)

-\*EFTA countries are EU countries plus Iceland, Norway, Lichtenstein, Switzerland, Türkiye and UK.

## **740 GC Optional Equipment**

### **NOTE**

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

### **OPERATOR ENVIRONMENT**

Operator seat belt, four-point

Window blinds

Mirrors, heated motorized

Windshield wiper and washer, two speed (rear)

Radio, Bluetooth® stereo system

Seat, heated/cooled

Infrared glass – high ambient cab

### **TECHNOLOGY**

Machine Security System (MSS)

Product Link Dual PLE683

Cat® Payload monitoring system

### **ELECTRICAL AND LIGHTING**

Ether start

Flashing LED beacon

Cold weather start attachment

Engine block heater

Roof mounted LED work lights

### **OPTIONAL EQUIPMENT**

Body liners

Cold weather coolant –51° C (–60° F)

Scissor tailgate

Bare chassis (no body) standard wheel base

Wheel chocks

Fast fuel fill

Exhaust heated body

Fuel additive – anti-waxing

Bare chassis (no body) long wheel base

Auto lube installation for automatic greasing of bearings