

PRODUCT SPECIFICATIONS FOR 740 GC

Engine Model	Cat® C15
Bore	137 mm
Stroke	171.5 mm
Displacement	15.2 l
No Engine De-rating Below	3050 m
Peak Engine Torque Speed	1200 r/min
Peak Engine Torque Net (SAE J1349)	2264 N·m
Net Power - SAE J1349	327 kW
Engine Model - U.S. EPA Tier 4 Final/EU Stage V	Cat C15
Gross Power - SAE J1995	337 kW
Net Power - ISO 14396	333 kW
Peak Engine Torque Gross (SAE J1995)	2320 N·m
Emissions	The C15 engine meets Tier 4 Final and Stage V emission standards.
Note (4)	Net power when the fan is at maximum speed is 327 kW (439 hp) per the SAE reference conditions.

Note (2)	The power ratings apply at rated speed of 1,700 rpm when tested under the conditions for the specified standard.
Note (3)	The net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.
Note (1)	The references to Tier 4 Final/Stage V include U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final), as well as Korea Tier 4 Final emission standards.
Note (5)	DEF used in Cat SCR systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard ISO 22241. Requirements are met by many brands of DEF, including those that carry the AdBlue or API certifications.
Rated Payload	36.3 t
Heaped (SAE 2:1)	22.7 m ³
Struck	17 m ³
Tailgate Heaped SAE 2:1	24.4 m ³
Tailgate Struck	17.9 m ³
Forward - 1	6.4 km/h
Forward - 2	8.5 km/h
Forward - 3	11.5 km/h
Forward - 4	14.8 km/h
Forward - 5	19.7 km/h

Forward - 6	24 km/h
Reverse - 1	6.8 km/h
Reverse - 2	15.7 km/h
Forward - 8	39.8 km/h
Forward - 7	33.1 km/h
Forward - 9	57.5 km/h

Interior Cab	72 dB(A)
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Note (2)	Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environments.
Note (1)	The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 72 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.

Center Axle - Empty	6639 kg
Rear Axle - Empty	6416 kg
Center Axle - Rated Load	17087 kg
Front Axle - Empty	19321 kg
Total - Empty	32376 kg
Center Axle - Loaded	23173 kg
Front Axle - Loaded	22554 kg

Total - Rated Load	36300 kg
Rear Axle - Rated Load	17087 kg
Rear Axle - Loaded	22949 kg
Front Axle - Rated Load	2126 kg
Total - Loaded	68676 kg
Fuel Tank	550 l
Cooling System	90 l
Engine Crankcase	52 l
Axles - Each	60 l
Brake Cooling Tank	67 l
Transmission - OTG	75 l
DEF Tank	25 l
Steering/Hoist Hydraulic System	140 l
Final Drive - Each	5 l
Raise Time	12 s
Lower Time	12 s
Lock to Lock	4.75 seconds @ 60 rpm

Brakes	ISO 3450 – 2011
Cab - FOPS	ISO 3449 Level II – 2005
Cab - ROPS	ISO 3471 – 2008
Steering	ISO 5010 – 2007
Type	High strength Brinell HB450 wear resistant steel
Turning Dimensions - SAE Turning Radius	7698 mm
Turning Dimensions - Clearance Radius	8395 mm
Turning Dimensions - Aisle Width	5595 mm
Note	Dimensions are for machines equipped with 29.5 R25 tires.
Turning Dimensions - Steer Angle - Left/Right	45°
Turning Dimensions - Inside Radius	3960 mm
Side Plates	11 mm
Base Plate	13 mm
Front Plate	7 mm

Note

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

**Wheel Loader:
972M - Passes**

3

**Wheel Loader:
962M - Passes**

5

**Wheel Loader:
966M - Passes**

4–5

**Hydraulic
Excavator: 374F -
Passes**

3–4

**Hydraulic
Excavator: 352F -
Passes**

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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: extensive arrangement for improved visibility

Two seats both with seat belts, operator's retractable

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
- Machine Security System (MSS)
- Secondary steering energy source engaged
- Hour meter
- Retarder active

Adjustable air vents

Machine operation monitoring system includes:

- Action lamp
- Engine oil pressure

- 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
- Trainer: padded with 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 with R134A refrigerant

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

CAT TECHNOLOGIES

Cat Detect with Stability Assist

Product Link: PL631E or PL641E dependent on location and licensing agreement

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

POWER TRAIN

Dual circuit oil immersed, enclosed brakes – all wheels

Cat Clean Emission Module (CEM) and exhaust aftertreatment package

Auto shift nine-speed forward and two reverse transmission

Three axle, six-wheel drive

Cat C15 engine

Retarder: engine compression brake

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

Axle

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 (only standard in Europe)

740 GC OPTIONAL EQUIPMENT

NOTE

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

OPTIONAL EQUIPMENT

Machine Security System (MSS)
Product Link Elite: PLE631E (satellite), PLE641E (cellular)
Ether start
Flashing LED beacon
Four-point seat belt
Cold weather start attachment
Body liners
Engine block heater
Window blinds
Cold weather coolant -51° C (-60° F)
Heated rearview motorized mirrors
Roof mounted High Intensity Discharge (HID) work lights
Scissor tailgate
Windshield wiper and washer, two speed (rear)
Bluetooth radio stereo system
Bare chassis (no body) standard wheel base
Wheel chocks
Heated/cooled seat
Fast fuel fill
Exhaust heated body
Sound suppression (only standard in Europe)
Infrared glass – high ambient cab
Fuel additive – anti-waxing
Bare chassis (no body) long wheel base
Auto lube installation for automatic greasing of bearings
Cat Production Measurement payload monitoring system

