

Product Specifications For 740



Engine

Engine Model	Cat® C15
Gross Power (SAE J1995)	335 kW
Net Power (SAE J1349)	324 kW
Engine Power (ISO 14396)	330 kW
Bore	137 mm
Stroke	171.5 mm
Displacement	15.2 l
Note (1)	Advertised power is tested at 1,700 rpm.
Note (2)	Advertised power is tested per the specified standard in effect at the time of manufacture.
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 (4)	Net power when the fan is at maximum speed is 324 kW (434 hp) per the SAE reference conditions.
Note (5)	Two engine emissions options are available: 1. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA. 2. Noncertified configuration that is equivalent to U.S. EPA Tier 2 and EU Stage II.
No Engine De-rating Below	3050 m
Peak Engine Torque Gross (SAE J1995)	2320 N·m

**Peak Engine Torque
Net (SAE J1349)** 2264 N·m

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

Weights

Rated Payload 36.3 t

Body Capacities

Heaped (SAE 2:1) 22.7 m³

Struck 17.7 m³

Tailgate Heaped SAE 2:1 24.4 m³

Tailgate Struck 17.9 m³

Air Conditioning System

Air Conditioning 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).

Transmission

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

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

Sound Levels

Interior Cab	72 dB(A)
Note (1)	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.
Note (2)	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

Front Axle - Empty	19095 kg
Center Axle - Empty	6785 kg
Rear Axle - Empty	6680 kg
Total - Empty	32560 kg
Front Axle - Rated Load	3176 kg
Center Axle - Rated Load	16562 kg
Rear Axle - Rated Load	16562 kg

Total - Rated Load	36300 kg
Front Axle - Loaded	22271 kg
Center Axle - Loaded	23347 kg
Rear Axle - Loaded	23242 kg
Total - Loaded	68860 kg

Body Plate

Type	High strength Brinell HB450 wear resistant steel
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Body Plate Thickness

Front Plate	7 mm
Base Plate	13 mm
Side Plates	11 mm

Service Refill Capacities

Fuel Tank	550 l
Cooling System	90 l
Brake Cooling Tank	67 l
Steering/Hoist Hydraulic System	140 l
Engine Crankcase	52 l
Transmission - OTG	75 l
Final Drive - Each	5 l
Axles - Each	60 l

Body Hoist

Raise Time	12 s
Lower Time	12 s

Standards

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

Turning Circle

Turning Dimensions - Steer Angle - Left/Right	45°
Turning Dimensions - SAE Turning Radius	7698 mm
Turning Dimensions - Clearance Radius	8395 mm
Turning Dimensions - Inside Radius	3960 mm
Turning Dimensions - Aisle Width	5595 mm
Note	Dimensions are for machines equipped with 29.5 R25 tires.

Steering

Lock to Lock	4.75 seconds @ 60 rpm
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Optimal Loader/Truck Pass Matching

Hydraulic Excavator: 374 - Passes	3-4
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Hydraulic Excavator: 352 - Passes	5-6
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Wheel Loader: 972 - Passes	3
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Wheel Loader: 966 - Passes	4-5
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Wheel Loader: 962 - Passes	5
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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.
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740 Standard Equipment

NOTE

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

OPERATOR ENVIRONMENT

Glass windows:

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

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

Heater and defroster with four-speed fan

Mirrors: exterior

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
- Secondary steering energy source engaged
- Hour meter
- Retarder active

Sun visor

Tilt and telescopic steering wheel

Storage:

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

Air conditioning

Adjustable air vents

Seats:

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

Secondary steering – electro hydraulic

Touchscreen display incorporating the rearview camera video feed

Windows (tinted) opening both sides

Combined gear selection and hoist control lever

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

TECHNOLOGY

Cat Detect with Stability Assist

Product Link Dual PLE683

ELECTRICAL AND LIGHTING

Horn

Batteries (two) maintenance free

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

Main disconnect switch

Remote starting receptacle (cables not included)

POWERTRAIN

Automatic Retarder: engine compression brake and hydraulic

Cat C15 engine

Three axle, six-wheel drive

CX38 transmission

Auto shift nine-speed forward and two reverse transmission

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

Dual circuit oil immersed, enclosed brakes – all wheels

SAFETY

Reverse alarm

Rearview camera

Rollover protective structure/falling objects protective structure ROPS/FOPS cab

GUARDS

Front dump body spill guard, integral part of fabricated body

Rear window

Crankcase

Radiator

OTHER STANDARD EQUIPMENT

Vandalism protection: lockable caps

Scheduled Oil Sampling (S·O·S) sampling valves

Tires, six 29.5 R25

Mud flaps: wheel arch and body mounted with transportation tiebacks

740 Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Mirrors, heated motorized

Infrared glass – high ambient cab

Window blinds
Windshield wiper and washer, two speed (rear)
Operator seat belt, four-point
Seat, heated/cooled
Radio, Bluetooth® stereo system

TECHNOLOGY

Cat® Payload monitoring system
Product Link Cellular PLE643
Machine Security System (MSS)

ELECTRICAL AND LIGHTING

Engine block heater
Roof mounted LED work lights
Flashing LED beacon
Ether start

OPTIONAL EQUIPMENT

Cold weather start attachment
Scissor tailgate
Fuel additive – anti-waxing
Auto lube installation for automatic greasing of bearings
Fast fuel fill
Bare chassis (no body) standard wheel base
Wheel chocks
Body liners
Exhaust heated body
Bare chassis (no body) long wheel base
Cold weather coolant –51° C (–60° F)
Sound suppression