

Product Specifications For 972



Engine

Engine Power - 1,600 rpm ISO 14396:2002	339 hp
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Engine Power - 1,600 rpm ISO 14396:2002	344 hp (metric)
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Engine Model	Cat® C9.3B
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Gross Power - 1,600 rpm SAE J1995:2014	343 hp
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Gross Power - 1,600 rpm SAE J1995:2014	348 hp (metric)
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Net Power - 1,600 rpm ISO 9249:2007, SAE J1349:2011	321 hp
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Net Power - 1,600 rpm ISO 9249:2007, SAE J1349:2011	326 hp (metric)
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Engine Torque - 1,200 rpm ISO 14396:2002	1375 lbf·ft
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Gross Torque - 1,200 rpm SAE J1995:2014	1388 kW
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Net Torque - 1,200 rpm ISO 9249:2007, SAE J1349:2011	1316 lbf·ft
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Displacement	567.5 in³
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Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, China Nonroad Stage IV and Japan 2014 emission standards.
Biodiesel Capability	Up to B20 ¹
Note (1)	The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
Note (2)	¹Cat engines are compatible with diesel fuel blended with following lower carbon intensity fuels up to: • 20% biodiesel FAME (fatty acid methyl ester)* • 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. *For use of blends higher than 20% biodiesel, consult your Cat dealer. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
Engine Torque @ 1,200 rpm – ISO 14396:2002	1375 lb/ft
Note (3)	Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to: • 20% biodiesel FAME (fatty acid methyl ester)* • 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to- liquid) fuels Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. * Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.
Gross Torque @ 1,200 rpm – SAE J1995:2014	1388 lb/ft
Displacement	9.3 L

Weights

Operating Weight	54858 lb
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Note

Weight based on a machine configuration with Bridgestone 26.5R25 VJT L3 radial tires, full fluids, operator, standard counterweight, ride control, cold start, roading fenders, Product Link™, front manual differential/open rear axles, powertrain guard, secondary steering, sound suppression, and a 4.8 m³ (6.25 yd³) general purpose bucket with BOCE.

Transmission

Forward - 1	4.1 mile/h
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Forward - 2	8.4 mile/h
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Forward - 3	15 mile/h
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Forward - 4	24.5 mile/h
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Reverse - 1	4.5 mile/h
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Reverse - 2	9.2 mile/h
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Reverse - 3	16.5 mile/h
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Reverse - 4	24.5 mile/h
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Note

Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 849 mm (33 in) roll radius.

Sound

Operator Sound Pressure Level - ISO 6396:2008	70 dB(A)
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Exterior Sound Power Level - ISO 6395:2008	109 dB(A)
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Operator Sound Pressure Level - ISO 6396:2008 ¹	69 dB(A)
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Exterior Sound Power Level - ISO 6395:2008²	108 dB(A)
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Note (1)

¹Including countries that adopt the EU and UK Directives.

Note (2)

²Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

**With Cooling Fan Speed at
Maximum Value - Note**

Distance of 15 m (49.2 ft), moving forward in second gear ratio.

Air Conditioning System

Air Conditioning

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO2 equivalent 2.288 metric tonnes (2.522 tons).

Operating Specifications

Static Tipping Load - Full 37° Turn 35919 lb

**Static Tipping Load - Full 37° Turn
- No Tire Deflection** 38582 lb

Breakout Force 44072 lbf

Note (1)

For a machine configuration as defined under "Weight."

Note (2)

Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Service Refill Capacities

Fuel Tank 80.1 gal (US)

DEF Tank 6.9 gal (US)

Cooling System 17.4 gal (US)

Crankcase 6.1 gal (US)

Transmission 15.5 gal (US)

Differential - Final Drives - Front 15.1 gal (US)

Differential - Final Drives - Rear

15.1 gal (US)

Hydraulic Tank

30.1 gal (US)

Hydraulic System

Implement System - Maximum Pump Output at 2,275 rpm

99 gal/min

Implement System - Maximum Operating Pressure

4496 psi

Hydraulic Cycle Time - Total

10.7 s

Hydraulic Cycle Time - Total

10.7 seconds

Dimensions - Standard Lift

Height - Top of Hood

9.33 ft

Height - Top of ROPS

11.83 ft

Ground Clearance

1.33 ft

Wheel Base

11.67 ft

Overall Length -
Without Bucket

25.42 ft

Hinge Pin Height at
Carry Height

2.27 ft

Hinge Pin Height at
Maximum Lift

14.58 ft

Lift Arm Clearance at
Maximum Lift

12.58 ft

Rack Back - Maximum
Lift

56 °

Rack Back - Carry Height	49 °
Width over Tires (Loaded)	9.92 ft
Tread Width	7.25 ft
Note	All dimensions are approximate and based on machine equipped with 4.8 m³ (6.25 yd³) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.
Rack Back - Maximum Lift	56 degrees
Rack Back at Ground	39 degrees
Rack Back - Carry Height	49 degrees

Dimensions - High Lift

Height - Top of Hood	9.33 ft
Height - Top of ROPS	11.83 ft
Ground Clearance	1.33 ft
Wheel Base	11.67 ft
Overall Length - Without Bucket	26.5 ft
Hinge Pin Height at Carry Height	2.5 ft
Hinge Pin Height at Maximum Lift	15.67 ft

Lift Arm Clearance at Maximum Lift	13.67 ft
Rack Back - Maximum Lift	71 °
Rack Back - Carry Height	49 °
Width over Tires (Loaded)	9.92 ft
Tread Width	7.25 ft
Note	All dimensions are approximate and based on machine equipped with 4.8 m³ (6.25 yd³) general purpose bucket with BOCE and Bridgestone 26.5R25 VJT L3 radial tires.
Rack Back - Maximum Lift	71 degrees
Rack Back at Ground	37 degrees
Rack Back - Carry Height	49 degrees

972 Standard Equipment

NOTE

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

Operator Environment

Cab, pressurized, sound suppression
 EH implement controls, parking brake
 Steering, joystick
 Seat belt, monitored
 Seat, cloth, air suspension
 Touchscreen display
 Keypad, programmable buttons
 Air conditioner, heater, defroster (auto temp, fan)
 Sun visor, front, retractable
 Sun visor, rear, retractable

Window, front, laminated

ON-BOARD TECHNOLOGIES

Cat Payload scale

Autodig with Auto Set Tires

Operator ID & machine security

Application Profiles

Job Aids

Controls Help and eOMM (not available in all languages)

Key Features Inform

Bucket Carry Display Widget

Remote Flash

POWERTRAIN

Cat C9.3B engine

Electric fuel priming pump

Fuel-water separator and secondary fuel filter

Engine, air precleaner

Axles, auto front differential lock

Transmission, planetary, automatic powershift

Torque converter with lock-up

Service brakes, hydraulic, fully enclosed wet disc, wear indicators

Integrated Braking System (IBS)

Park brake, caliper on front axles, spring applied-pressure released

Brake pedal neutralizer with decel function

HYDRAULICS

Implement system, load sensing with variable displacement piston pump

Steering system, load sensing with dedicated variable displacement piston pump

Ride control, dual accumulators

Oil sampling valves, Cat XT™ hoses

ELECTRICAL

Starting and charging system, 24V

Starter, electric, heavy duty

Lights: halogen, 4 work lights, 2 front roading lights with turn signals, 2 rearview lights

MONITORING SYSTEM

Front dash with analog gauges, LCD display, and warning lights

Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)

Maintenance reminders

LINKAGE

Standard lift, Z-bar

Kickouts: lift and tilt

SAFETY

Visibility: mirrors, rear-vision camera

Window cleaning platform, front

Visibility: mirrors, rear-vision camera

Window cleaning platform, front

972 Optional Equipment

NOTE

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

Operator Environment

Door, remote opening system

Footrest

HMU steering wheel

Implement joystick (2V, 3V only)

Entertainment radio (FM, AM, USB, BT)

Entertainment radio (DAB+)

CB radio ready

Seat, suede/cloth, air suspension, heated

Seat, leather/cloth, air suspension, heated/ cooled

Mirrors, heated

Windows, front, heavy duty

Full cab window guard

ON-BOARD TECHNOLOGIES

Cat Advanced Payload

Cat Payload Printer with E-ticket

POWERTRAIN

Turbine, air precleaner

Radiator, high debris

Cooling fan, reversible

Axles, auto front and rear differential locks

Axles, ecology drains, AOC ready, extreme temperature seals

Axles, oil cooler

HYDRAULICS

3rd and 4th auxiliary functions with ride control

Quick coupler control

ELECTRICAL

Cold start, 120V or 240V

Lights: roading with turn signals

MONITORING SYSTEM

Tire pressure monitor

LINKAGE

High lift, Z-bar

ADDITIONAL EQUIPMENT

Cat Autolube system

Fenders, extensions or roading

Guards: power train, crankcase, cab, cylinders, rear

Biodegradable hydraulic oil

High-speed oil change system

Rear cab access

Toolbox

SAFETY

Cat Detect rear radar system

Dedicated rearview screen

Multiview (360°) vision system

4-point seat belt retractor

Reversing strobe lights (not compatible with roading arrangements)

Seat belt monitoring beacon

Secondary steering system, electrical (Standard where mandated)

Wheel chocks

Warning beacon

SPECIAL CONFIGURATIONS

Aggregate handler

Waste and industrial

Steel Mill

Corrosion resistant