

## CAT 972K Wheel Loader

Yr Built: 2013      Color: Yellow  
MFG: Caterpillar Mfg.

Price USD \$55,366  
SLNC Item #: #10

Comments: Ascension Island – Serial# CAT0972KKZ4W00469



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*All descriptions given in good faith but without guarantee.*

# PRODUCT SPECIFICATIONS FOR 972

## ENGINE

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**Engine Power @ 1,600 rpm - ISO 14396:2002** 339 HP

**Gross Power @ 1,600 rpm - SAE J1995:2014** 342 HP

**Engine Model** Cat C9.3B

**Net Power @ 1,600 rpm - ISO 9249:2007,  
SAE J1349:2011** 321 HP

**Note (1)**

Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final, and Japan 2014 emission standards.

**Note (2)**

The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.

**Net Torque @ 1,200 rpm - ISO 9249:2007,  
SAE J1349:2011** 1316 ft-lb

**Engine Torque @ 1,200 rpm – ISO  
14396:2002** 1375 lb/ft

**Note (3)**

Cat engines are compatible with the following renewable, alternative, and bio-fuels\* with lower greenhouse gas emission impact: ? Up to B20 biodiesel (FAME) \*\* ? Up to 100% HVO and GTL renewable fuels \* Refer to guidelines for successful application. Please consult your Cat dealer or ?Caterpillar Machine Fluids Recommendations? (SEBU6250) for details. \*\* For use of higher blends, consult your Cat dealer.

**Gross Torque @ 1,200 rpm – SAE  
J1995:2014** 1388 lb/ft

**Displacement** 9.3 L

## WEIGHTS

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**Operating Weight** 54858 lb

**Note**

Weight based on a machine configuration with Bridgestone 26.5R25 VJTL3 radial tires, full fluids, operator, standard counterweight, ride control, cold start, roading fenders, Product Link, front manual differential/open rear axles, power train guard, secondary steering, sound suppression, and a 4.8 m<sup>3</sup> (6.25 yd<sup>3</sup>) general purpose bucket with BOCE.

## TRANSMISSION

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|             |   |
|-------------|---|
| Forward - 1 | 4.1 mile/h  |
| Forward - 2 | 8.4 mile/h  |
| Forward - 3 | 15 mile/h   |
| Forward - 4 | 24.5 mile/h   |
| Note        | Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 849 mm (33 in) roll radius. |
| Reverse - 1 | 4.5 mile/h  |
| Reverse - 2 | 9.2 mile/h  |
| Reverse - 3 | 16.5 mile/h   |
| Reverse - 4 | 24.5 mile/h   |

## SOUND

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|  |  |
|--|--|
| Note (1)   | ** For machines in European Union countries and in countries that adopt the EU Directives. |
| Note (2)   | ***European Union Directive 2000/14/EC as amended by 2005/88/EC.                           |
| With Cooling Fan Speed at 70% of Maximum Value - Exterior Sound Power Level*                   | 108  |
| With Cooling Fan Speed at 70% of Maximum Value - Operator Sound Pressure Level (ISO 6396:2008) | 69 dB(A)   |
| With Cooling Fan Speed at Maximum Speed - Exterior Sound Power Level (ISO 6395:2008)           | 109 dB(A)  |
| With Cooling Fan Speed at Maximum Speed - Exterior Sound Pressure Level (SAE J88:2013)         | 76   |
| With Cooling Fan Speed at Maximum Speed - Operator Sound Pressure Level (ISO 6396:2008)        | 70 dB(A)   |
| With Cooling Fan Speed at Maximum Value - Note   | - Distance of 15 m (49.2 ft), moving forward in second gear ratio.                         |

## AIR CONDITIONING SYSTEM

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|                  |   |
|------------------|---|
| 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

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|   |   |
|---|---|
| <b>Breakout Force</b>   | 44072 lb  |
| <b>Note (1)</b>   | For a machine configuration as defined under Weight.  |
| <b>Note (2)</b>   | Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing. |
| <b>Static Tipping Load - Full 40° Turn - No Tire Deflection</b>   | 17505 kg  |
| <b>Static Tipping Load - Full 40° Turn - With Tire Deflection</b> | 35919 lb  |

## SERVICE REFILL CAPACITIES

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|  |               |
|--|---------------|
| <b>Cooling System</b>                      | 17.4 gal (US) |
| <b>Crankcase</b>                           | 6.1 gal (US)  |
| <b>DEF Tank</b>                            | 6.9 gal (US)  |
| <b>Differential - Final Drives - Front</b> | 15.1 gal (US) |
| <b>Differential - Final Drives - Rear</b>  | 15.1 gal (US) |
| <b>Fuel Tank</b>                           | 80.1 gal (US) |
| <b>Hydraulic Tank</b>                      | 30.1 gal (US) |
| <b>Transmission</b>                        | 15.5 gal (US) |

## HYDRAULIC SYSTEM

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|  |              |
|--|--------------|
| <b>Implement System - Maximum Operating Pressure</b>       | 4496 psi     |
| <b>Implement System - Maximum Pump Output at 2,250 rpm</b> | 99 gal/min   |
| <b>Hydraulic Cycle Time - Total</b>                        | 10.7 seconds |

## DIMENSIONS

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### Note

All dimensions are approximate and based on machine equipped with 5.4 m<sup>3</sup> (7.1 yd<sup>3</sup>) general purpose bucket with BOCE and Bridgestone 29.5R25 VSNT L4 radial tires.

## **DIMENSIONS - HIGH LIFT**

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|   |            |
|---|------------|
| <b>Centerline of Rear Axle to Edge of Counterweight</b> | 8.1 ft     |
| <b>Centerline of Rear Axle to Hitch</b>                 | 5.1 ft     |
| <b>Ground Clearance</b>                                 | 1.4 ft     |
| <b>Height - Top of Exhaust Pipe</b>                     | 11.8 ft    |
| <b>Height - Top of Hood</b>                             | 9.5 ft     |
| <b>Height - Top of ROPS</b>                             | 11.1 ft    |
| <b>Hinge Pin Height at Carry</b>                        | 2.6 ft     |
| <b>Hinge Pin Height at Maximum Lift</b>                 | 15.9 ft    |
| <b>Lift Arm Clearance at Maximum Lift</b>               | 13.8 ft    |
| <b>Overall Length - Without Bucket</b>                  | 26.6 ft    |
| <b>Tread Width</b>                                      | 7.3 ft     |
| <b>Wheel Base</b>                                       | 11.8 ft    |
| <b>Rack Back at Ground</b>                              | 37 degrees |
| <b>Rack Back - Maximum Lift</b>                         | 71 degrees |
| <b>Rack Back - Carry Height</b>                         | 49 degrees |
| <b>Width over Tires (Loaded)</b>                        | 9.11 ft    |

## **DIMENSIONS - STANDARD LIFT**

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|   |            |
|---|------------|
| <b>Centerline of Rear Axle to Hitch</b>                 | 5.1 ft     |
| <b>Ground Clearance</b>                                 | 420 mm     |
| <b>Height - Top of Exhaust Pipe</b>                     | 3527 mm    |
| <b>Height - Top of Hood</b>                             | 2846 mm    |
| <b>Height - Top of ROPS</b>                             | 3589 mm    |
| <b>Hinge Pin Height at Carry</b>                        | 2.2 ft     |
| <b>Hinge Pin Height at Maximum Lift</b>                 | 4464 mm    |
| <b>Lift Arm Clearance at Maximum Lift</b>               | 3843 mm    |
| <b>Overall Length - Without Bucket</b>                  | 7731 mm    |
| <b>Tread Width</b>                                      | 7.3 ft     |
| <b>Wheel Base</b>                                       | 3550 mm    |
| <b>Rack Back at Ground</b>                              | 39 degrees |
| <b>Width over Tires (Loaded)</b>                        | 9.11 ft    |
| <b>Centerline of Rear Axle to Edge of Counterweight</b> | 8 ft       |
| <b>Rack Back - Maximum Lift</b>                         | 56 degrees |
| <b>Rack Back - Carry Height</b>                         | 49 degrees |

## **BUCKET CAPACITIES**

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**Bucket Range**                    2.8-14 m<sup>3</sup> 3.75-18.25 yd<sup>3</sup>

## **972 STANDARD EQUIPMENT**

### **OPERATOR ENVIRONMENT**

- Cab, pressurized, sound suppression
- EH implement controls, parking brake
- Steering, joystick
- Seat, cloth, air suspension
- Touchscreen display
- Visibility: mirrors, rear-vision camera
- Air conditioner, heater, defroster (auto temp, fan)
- Sun visor, front, retractable
- Sun visor, rear, retractable
- Window cleaning platform, front
- 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

### **POWER TRAIN**

- Cat C9.3B engine
- Electric fuel priming pump
- Fuel-water separator and secondary fuel filter
- Engine, air precleaner
- Axles, 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

## **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 rearvision lights

## **MONITORING SYSTEM**

- Front dash with analog gauges, LCD display, and warning lights
- Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)

## **LINKAGE**

- Standard lift, Z-bar
- Kickouts: lift and tilt

# **972 OPTIONAL EQUIPMENT**

## **OPERATOR ENVIRONMENT**

- Door, remote opening system
- HMU steering wheel
- 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
- Multiview (360◀▶) vision system
- Cat Detect rear radar system
- Dedicated rearview screen
- Mirrors, heated
- Full cab window guard

### **ON-BOARD TECHNOLOGIES**

- Cat Advanced Payload
- Cat Payload Printer

### **POWER TRAIN**

- Turbine, air precleaner
- Radiator, high debris
- Cooling fan, reversible
- Axles, auto differential locks front and rear
- 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: LED
- Warning beacon

### **MONITORING SYSTEM**

- Reversing strobe lights

### **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
- Wheel chocks
- Secondary steering system, electrical

#### **SPECIAL CONFIGURATIONS**

- Aggregate handler
- Steel Mill
- Corrosion resistant