

# Product Specifications For 966 GC



## Engine

|   |  |
|---|--|
| <b>Engine Power @ 1,600 rpm<br/>- ISO 14396:2002</b>                  | 321 hp   |
| <b>Engine Model</b>   | Cat C9.3B  |
| <b>Gross Power @ 1,600 rpm -<br/>SAE J1995:2014</b>                   | 325 hp   |
| <b>Net Power @ 1,600 rpm -<br/>ISO 9249:2007, SAE<br/>J1349:2011</b>  | 292 hp   |
| <b>Net Power - ISO 9249</b>   | 292 hp   |
| <b>Engine Torque @ 1,200 rpm<br/>- ISO 14396:2002</b>                 | 1314 ft·lbf  |
| <b>Gross Torque @ 1,200 rpm<br/>– SAE J1995:2014</b>                  | 1327 ft·lbf  |
| <b>Net Torque @ 1,200 rpm -<br/>ISO 9249:2007, SAE<br/>J1349:2011</b> | 1234 ft·lbf  |
| <b>Bore - ISO 9249</b>  | 4.53 in  |
| <b>Stroke</b>   | 5.87 in  |
| <b>Displacement</b>   | 568 in <sup>3</sup>  |
| <b>Note (1)</b>   | Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5, China Nonroad Stage IV, and Japan 2014 (Tier 4 Final) emission standards.        |
| <b>Note (2)</b>   | The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment. |

**Note (3)**

Cat engines are compatible with the following renewable, alternative, and biodiesel\* fuels that reduce greenhouse gases on a lifecycle basis: • Up to B20 biodiesel (FAME) \*\* • Up to 100% HVO and GTL renewable fuels

## Weights

**Operating Weight\*** 48018 lb

**Note (1)** \* For 4 m<sup>3</sup> (5.2 yd<sup>3</sup>) general purpose bucket with BOCE.

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

## Operating Specifications

**Static Tipping Load - Full 37° Turn - With Tire Deflection** 30072 lb

**Static Tipping Load - Full 37° Turn - No Tire Deflection** 32233 lb

**Breakout Force** 36974 lbf

**Note (1)** \* For 4 m<sup>3</sup> (5.2 yd<sup>3</sup>) general purpose bucket with BOCE.

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

## Buckets

**Bucket Capacities** 3.2 - 7.1 m<sup>3</sup> (4.25 - 9.25 yd<sup>3</sup>)

## Sound

**With Cooling Fan Speed at Maximum Value - Operator Sound Pressure Level (ISO 6396:2008)** 75 dB(A)

**With Cooling Fan Speed at Maximum Value - Exterior Sound Power Level (ISO 6395:2008)** 110 dB(A)

**With Cooling Fan Speed at Maximum Value - Exterior Sound Pressure Level (SAE J88:2013)** 78 dB(A)\*

**Note (1)** \*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

**With Cooling Fan Speed at 70% of Maximum Value - Operator Sound Pressure Level (ISO 6396:2008)\*\*** 73 dB(A)

**With Cooling Fan Speed at 70% of Maximum Value - Exterior Sound Power Level (ISO 6395:2008)\*\*** 108 dB(A)\*\*\*

**Note (2)** \*\* For machines in European Union countries and in countries that adopt the "EU Directives".

**Note (3)** \*\*\* European Union Directive "2000/14/EC" as amended by "2005/88/EC".

## Transmission

**Forward - 1** 4 mile/h

**Reverse - 1** 4.3 mile/h

**Forward - 2** 7.5 mile/h

**Reverse - 2** 8.2 mile/h

**Forward - 3** 13 mile/h

**Reverse - 3** 14.3 mile/h

**Forward - 4** 21.6 mile/h

**Reverse - 4** 22.9 mile/h

**Note** Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 826 mm (32 in) roll radius.

## Service Refill Capacities

|  |               |
|--|---------------|
| <b>Fuel Tank</b>                           | 84.5 gal (US) |
| <b>DEF Tank</b>                            | 6.9 gal (US)  |
| <b>Cooling System</b>                      | 14 gal (US)   |
| <b>Crankcase</b>                           | 6.1 gal (US)  |
| <b>Transmission</b>                        | 14.5 gal (US) |
| <b>Differential - Final Drives - Front</b> | 15.1 gal (US) |
| <b>Differential - Final Drives - Rear</b>  | 15.1 gal (US) |
| <b>Hydraulic Tank</b>                      | 26.7 gal (US) |

## Hydraulic System

|   |  |
|---|--|
| <b>Implement Pump Type</b>  | Variable Displacement Piston, Load Sensing |
| <b>Implement System - Maximum Flow @ 2,275 rpm</b>                | 86 gal/min                                 |
| <b>Implement System - Maximum Operating Pressure</b>              | 4047 psi                                   |
| <b>Implement System - Maximum Flow 3rd Function</b>               | 63 gal/min                                 |
| <b>Implement System - Maximum Operating Pressure 3rd Function</b> | 3304 psi                                   |
| <b>Hydraulic Cycle Time - Raise from Carry Position</b>           | 5.7 s                                      |
| <b>Hydraulic Cycle Time - Lower, Empty, Float Down</b>            | 2.6 s                                      |
| <b>Hydraulic Cycle Time - Total Cycle Time</b>                    | 10.1 s                                     |

## Loader Hydraulic System

|  |       |
|--|-------|
| <b>Hydraulic Cycle Time - Dump, at Maximum Raise</b> | 1.8 s |
|--|-------|

# Cab

## ROPS/FOPS

ROPS/FOPS meet ISO 3471:2008 and ISO 3449:2005 Level II standards

# Brakes

## Brakes

Brakes meet ISO 3450:2011 standards

# Dimensions

## Height - Top of Hood

9.2 ft

## Height - Top of Exhaust Pipe

11.61 ft

## B-Pin Height

13.11 ft

## Height - Top of ROPS

11.75 ft

## Centerline of Rear Axle to Edge of Counterweight

8.1 ft

## Ground Clearance

1.49 ft

## Wheel Base

11.65 ft

## Centerline of Rear Axle to Hitch

5.82 ft

## Rack Back - Maximum Lift

62 °

## Rack Back - Carry

50 °

## Rack Back - Ground

42 °

## Lift Arm Clearance

12.16 ft

# Sustainability

## Recyclability

97%

# 966 GC Standard Equipment

## **NOTE**

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

## **OPERATOR ENVIRONMENT**

Air conditioning (HVAC) with 10 vents and filter unit located outside of cab  
Bucket/work tool function lockout  
Switch, transmission neutralizer lockout  
Cab, pressurized and sound suppressed  
Camera, rearview  
Coat hook  
Computerized monitoring system  
Cup holders and personal tray on right console and behind seat  
Horn  
Mirrors, rearview external with integrated spot mirror  
Pilot hydraulic controls, lift and tilt function; two (2) single axis levers or joystick  
12V power port (10A)  
Radio ready  
ROPS/FOPS structure  
Seat, Cat Comfort (cloth), mechanical suspension  
Steering column, adjustable angle  
Window, sliding (left and right sides)  
Wipers/washers (front and rear)

## **POWER TRAIN**

Axels, Open/Open differentials  
Brakes, full hydraulic enclosed wet-disc  
Cat C9.3B engine  
EIMS (Engine Idle Management System)  
AIS (Auto Idle Shutdown)  
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand  
Fan, reversing automatic and manual control  
Filter, fuel primary/secondary/tertiary  
Filters, engine air, primary/secondary  
Fuel priming pump (electric)  
Fuel/water separator  
Radiator, unit core (9.5 fpi) with ATAAC  
Torque converter  
Transmission, powershift (4F/4R), automatic (2-4) with kick-down function, overspeed protection

## **LINKAGE**

Lift and bucket return-to-dig kickouts (electro-magnetic), mechanical adjustment  
Z-bar, cast tilt lever

## **HYDRAULICS**

Dedicated brake and fan pump

Dedicated load sensing steering pump  
Load sensing implement system pilot operated  
S O S <sup>SM</sup> oil sampling valves

## **ELECTRICAL**

Alarm, back-up variable/main disconnect switch  
Alternator (145-amp, brush type)  
Batteries, maintenance free (2 x 1,125 CCA)  
Ignition key; start/stop  
Lighting system: 4 halogen work lights, cab mounted  
Roading lights with high/low beam and F and R turn signals  
Starter, electric (heavy duty)  
Starting and charging system, 24V

## **ADDITIONAL EQUIPMENT**

Cold weather starting basic (ether starting aid)  
Counterweight, 605 kg (1,334 lb)  
Fenders (front) steel  
Grill, airborne debris  
Hitch, drawbar with pin  
Hood, metallic on steel structure  
Doors, service access (locking)  
L3 radial or bias ply tires  
Precleaner, strata tubes  
Product Link™ ready

## **966 GC Optional Equipment**

### **NOTE**

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

## **OPERATOR ENVIRONMENT**

Cat® Payload (kit)  
Radio  
Seat, air suspended

## **POWER TRAIN**

Axles, limited slip differential(s)  
Axles, oil cooler  
Fan, reversing automatic and manual control

## **LINKAGE**

Fusion™ quick coupler control with dual kick outs

## **HYDRAULICS**

Quick coupler control  
Ride control  
3rd function with additional dedicated single axis lever

## **ELECTRICAL**

Lighting system: 8 halogen work lights, cab mounted  
Lighting system: 4 LED work lights, cab mounted  
Lighting system: 8 LED work lights, cab mounted  
Lights: warning beacon

## **ADDITIONAL EQUIPMENT**

Autolube system  
Camera, front view (kit)\*\*  
Cold weather starting full (HD batteries 2 x 1,400 CCA, ether system, jacket water heater, cold weather fluids)  
Fender rear extensions or roading  
L5 traction tires  
Power train guard  
Precleaner, strata tubes with screen  
Precleaner, strata tubes with screen  
Reverse Stobe (kit)\*\*\*  
Roading Certification\*\*\*\*  
Secondary steering system, electrical\*  
Toolbox  
Window cleaning (kit)  
Windshield guard

## **OPTIONAL EQUIPMENT - NOTE**

\* Standard where mandated  
\*\* Refer to M0106413 publication for usage requirements.  
\*\*\* Not compatible with roading arrangements.  
\*\*\*\* Offering depends on region.