

Product Specifications For 980 GC Wheel Loader



Engine

**Net Power @ 1,800 rpm -
ISO 9249:2007, SAE
J1349:2011** 282 kW

ISO 9249:2007 (DIN) 383 hp (metric)

**Engine Power @ 1,800 rpm
- ISO 14396:2002** 303 kW

ISO 14396:2002 (DIN) 412 hp (metric)

**Gross Power @ 1,800 rpm -
SAE J1995:2014** 307 kW

Engine Model Cat C13A

**Engine Torque @ 1,300 rpm
- ISO 14396:2002** 2172 N·m

**Gross Torque @ 1,300 rpm
- SAE J1995:2014** 2192 ft·lbf

**Net Torque @ 1,000 rpm -
ISO 9249:2007, SAE
J1349:2011** 2070 N·m

Bore 130 mm

Stroke 157 mm

Displacement 12.5 l

Note (1) Cat engine meets U.S. Brazil MAR-1 emissions standards, equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Nonroad Stage III 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 muffler.

Note (3) Cat engines are compatible with the following renewable, alternative, and biodiesel* fuels that reduce greenhouse gases on a lifecycle basis: • Up to 100% biodiesel (FAME) ** • Up to 100% HVO and GTL renewable fuels

Weights

Operating Weight* 29522 kg

Note (1) *Weight based on a machine configuration with standard ambient cooling, open differential axles, Triangle TB598S L4 tires, standard counterweight, full fluids, operator and 5.5 m³ (7.2 yd³) bucket with BOCE.

Buckets

Bucket Capacities 4.3 - 5.8 m³ (5.75 - 7.5 yd³)

Hydraulic System

Implement Pump Type Variable Displacement Piston, Load Sensing

Implement System – Maximum Flow @ 2,250 rpm 415 L/min

Implement System - Maximum Operating Pressure 28200 kPa

Implement System - Maximum Flow 3rd Function 250 L/min

Implement System - Maximum Operating Pressure 3rd Function 20680 kPa

Hydraulic Cycle Time - Raise from Carry Position 5.3 s

Hydraulic Cycle Time – Dump at Maximum Raise 1.7 s

Hydraulic Cycle Time - Lower, Empty, Float Down 3.1 s

Operating Specifications

**Static Tipping Load - Full 40° Turn
- With Tire Deflection** 18966 kg

**Static Tipping Load - Full 40° Turn
- No Tire Deflection** 20126 kg

Breakout Force 213 kN

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.

Sound

**Operator Sound Pressure Level - ISO
6396:2008** 74 dB(A)

**Exterior Sound Power Level - ISO
6395:2008** 112 dB(A)

**Operator Sound Pressure Level - ISO
6396:2008 ¹** 74 dB(A)

**Exterior Sound Power Level - ISO
6395:2008²** 109 dB(A)

Note (1) Including countries that adopt the EU and UK Directives

Note (2) EU Noise Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701

Transmission

Forward - 1 6.6 km/h

Reverse - 1 7.6 km/h

Forward - 2 12.7 km/h

Reverse - 2 14.5 km/h

Forward - 3 22.5 km/h

Reverse - 3 25.7 km/h

Forward - 4 39.8 km/h

Reverse - 4 39.8 km/h

Note Maximum travel speed in standard vehicle with empty bucket and standard L4 tires with 913 mm (36 in) roll radius.

Service Refill Capacities

Fuel Tank 426 l

Cooling System 52 l

Crankcase 37 l

Transmission 77 l

Differential - Final Drives - Front 84 l

Differential - Final Drives - Rear 84 l

Hydraulic Tank 153 l

Air Conditioning System

Air Conditioning The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a. See the label or instruction manual for identification of the gas. *If equipped with R134a (Global Warning Potential = 1430), the system contains 1.8 kg of refrigerant which has a CO₂ equivalent of 2,571 metric tonnes (2,834 tons).

980 GC Wheel Loader 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
Cab, pressurized and sound suppressed
Camera, rearview
Computerized monitoring system
Mirrors, rearview external
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
Switch, transmission neutralizer (adjustable) lockout
Window, sliding (left and right sides)
Wipers/washers (front and rear)

POWER TRAIN

Axles, Open/Open differentials
Brakes, full hydraulic enclosed wet-disc
Cat C13A engine
EIMS (Engine Idle Management System)
AIS (Auto Idle Shutdown)
Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
Filter, fuel primary/secondary
Fuel priming pump (electric)
Fuel/water separator
Radiator, unit core (9 fpi) with ATAAC
Torque converter
Transmission, powershift (4F/4R), automatic (2-4) with kick-down 2-1 manual

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 SSM oil sampling valves

ELECTRICAL

Alarm, back-up variable/main disconnect switch
Alternator (115-amp, brush type)
Batteries, maintenance free (2 x 1,400 CCA)
Ignition key; start/stop
Lighting system: 4 halogen work lights, cab mounted
Lights: LED taillights
Roading lights with high/low beam and F and R turn signals
Starter, electric (heavy duty)
Starting and charging system, 24V

ADDITIONAL EQUIPMENT

Hood, engine enclosure tilting
Radial or bias ply tires
Variable backup alarm (3dB above ambient noise)
Product Link™ ready

980 GC Wheel Loader Optional Equipment

NOTE

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

OPERATOR ENVIRONMENT

Radio: DAB+/AM/FM/BT
Seat, high-back, air suspended
Seat, air suspended, heated
Steering, secondary, electrical (standard where mandated)
Steering, dual mode

POWERTRAIN

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

LINKAGE

Quick coupler control

HYDRAULICS

Ride control
3rd function with additional dedicated single axis lever

ELECTRICAL

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

ADDITIONAL EQUIPMENT

Autolube system

Camera, front view

Cat Payload scale system

Cold weather starting

Fender rear extensions or roading

Tires, choice of L3, L4 or L5

Powertrain guard

Precleaner, strata tubes with screen

Reverse Stobe

Tilt cylinder guard

Toolbox

Windshield guard