



Cat[®] 986K

Wheel Loader

The Cat[®] 986K Wheel Loader helps you move more material in less time, at a lower cost per ton, for a faster return on your investment. This machine offers significant fuel savings with durability to achieve multiple life cycles.

Proven Reliability

- The highly responsive Cat C15 engine is built and tested for maximum performance.
- Mechanically actuated Electronic Unit Injection (MEUI[™]) fuel system and ADEM[™] A5 electronic control module manage fuel delivery for optimum performance and quick engine response.
- Available in aggregate handler configuration with 14-ton payload.
- System match efficiency up to 60-ton rigid-frame trucks.

Durability

- Best-in-class transmission for long life and consistent, smooth shifting; specifically designed for mining applications.
- Moves material more efficiently with improved power and control.
- Durable construction withstands the toughest loading conditions and multiple life cycles.
- Transmission neutralizer pedal extends service brake life and allows full power during stationary loading.
- Load sense hydraulics maximize performance, lower heat and fuel consumption.
- Advanced filtration system for extended performance and reliability of the hydraulic system.

Achieve Greater Productivity

- Up to 10% more payload per pass, higher efficiency, and improved pass match.
- Field-proven lift arms for enhanced strength, uptime, and excellent visibility.
- Load-sensing hydraulic steering with 35-degree articulation for precise positioning.
- Maximum responsiveness with Steering and Integrated Control (STIC[™]), combining directional, gear, and steering controls in a single joystick.
- Most advanced payload weight measuring system available.

- Performance Buckets for superior digging, higher bucket fill factors, and reduced dig times.
- Cat Advansys[™] ground engaging tools (GET) protect components and reduce operating costs.
- Excellent visibility to the bucket edges and work area.
- Convenient, responsive, electro-hydraulic controls increase operator productivity.

Superior Fuel Efficiency

- Up to 20% less fuel consumption.
- Best-in-class efficiency while truck loading.
- Torque converter with lock-up clutch improves travel speed, cycle times.
- Engine Idle Shutdown saves fuel from unnecessary idling. Move up to 10% more material per gallon of fuel.
- Consistent performance and efficiency with lower system heat.

Increase Productivity and Efficiency with Integrated Technologies

- Developed to monitor, manage, and enhance your jobsite operations.
- Payload provides accurate weighing* of the materials you are loading and hauling. Payload data is displayed in real-time to improve productivity and reduce overloading.
- Detect enhances awareness of the environment around working equipment and provides alerts to help keep people and assets safe on the jobsite.
- VisionLink[®] wirelessly connects you to your equipment, giving you access to essential information you need to know to run your business.
- Gain valuable insight into how your machine or fleet is performing.
- Optional Advanced Productivity subscription provides comprehensive actionable information to help you manage and improve the productivity and profitability of your operations.

**Not legal for trade.*



Cat® 986K Wheel Loader

Safety Features

- Standard stairway lighting.
- Left- and right-hand stairs with 45-degree angle.
- Rear vision camera system.
- Large front and side windows.
- Pressurized cabin with filtered and reduced sound levels.

Reduced Maintenance and Other Costs

- Up to 10% lower maintenance costs.
- Advanced filtration system for extended performance.
- Extended service intervals for fluids and filters.
- Ground level or platform access to transmission control valves.
- Grouped service points.
- Centralized, ground level grease points and remote pressure taps.
- Ground electrical service center.
- Reduced waste with maintenance-free or extended-maintenance batteries.
- Swing-out engine compartment service doors.
- Tire pressure monitoring to enhance tire life.
- Longer life, rebuildability, and high resale value.
- Electro-hydraulic controls.

Easy, Comfortable Operator Environment

- Best-in-class operator comfort and ergonomics.
- Integrated steering and transmission controls.
- Convenient, automatic, inside-the-cab implement kickouts.
- Easy-to-use soft detent controls.
- Comfort Series III seats with extra thick, contoured cushions.
- Air suspension system.
- Easy-to-reach levers and controls with six-way adjustment.
- Seat-mounted implement pod with STIC steering.
- Ergonomic switch placement and displays with large backlit switches and LED indicators.
- Two-position rocker switch activates the electro-hydraulic parking brake.
- Automatic cab temperature controls.
- Precise machine control by load-sensing hydraulic steering system.
- Fold-up STIC steer/armrest.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ELECTRICAL			POWER TRAIN (CONTINUED)		
Alarm, back-up	✓		Case drain screens	✓	
Alternator, single 145 amp	✓		Cat Production Measurement		✓
Converter, 10/15 amp, 24V to 12V	✓		Crankcase guard	✓	
Lighting system (halogen, work lights, access and service platform lighting)	✓		Electro hydraulic parking brake	✓	
Starting and charging system, 24V	✓		Engine block heater 120V or 240V		✓
Starter emergency start receptacle	✓		Engine, C15 MEUI diesel, turbocharged/aftercooled	✓	
OPERATOR ENVIRONMENT			Engine oil change system, high speed, Wiggins		✓
Air conditioner	✓		Ground level engine shutoff	✓	
Cab precleaner		✓	High ambient cooling – software		✓
Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS)	✓		Turbine precleaner, engine air intake	✓	
Cat Vision		✓	Starting aid, ether, automatic	✓	
Cat Production Measurement ready	✓		Torque converter, neutralizer	✓	
Heater, defroster	✓		Transmission, planetary powershift, 4F/3R electronic control	✓	
Horn, electric	✓		Manual switch and automatic fuel priming	✓	
LED warning strobe		✓	OTHER		
Lights, directional	✓		Aggregate handler		✓
Lunchbox, beverage holders	✓		Automatic bucket lift kickout/positioner	✓	
Mirrors, handrail mounted		✓	Cat Clean Emission Module (CEM)	✓	
Mirrors, rearview (externally mounted)	✓		Cold weather starting (extra two batteries)		✓
Radio, AM/FM/CD/MP3, Bluetooth® with Satellite Sirius		✓	Demand fan, hydraulically driven	✓	
Radio, CB ready		✓	Doors, service access (locking)	✓	
Rear vision camera system	✓		Ecology drains for engine, radiator, hydraulic tank	✓	
Seat, Cat Comfort (cloth), air suspension, six-way adjustable	✓		Fast fill fuel system (Shaw-Aero)		✓
Seat belt minder	✓		Front and rear roading fenders		✓
Seat belt, retractable, 76 mm (3 in) wide	✓		Hitch, drawbar with pin	✓	
STIC System	✓		Hydraulic, steering and brake filtration/screening system	✓	
UV glass	✓		Oil sampling valves	✓	
Wet-arm wipers/washers (front and rear) – intermittent front and rear wipers	✓		Premixed 50% concentration of extended life coolant with freeze protection to -34° C (-29° F)	✓	
Window pull-down visor		✓	Rear access to cab and service platform	✓	
POWER TRAIN			Steering, load sensing	✓	
Antifreeze -50° C (-58° F)		✓	Tire Pressure Monitoring System		✓
Brakes, oil-cooled, multi-disc, service/secondary	✓		Toe kicks	✓	
			Wheel chocks		✓
			Vandalism protection caplocks	✓	

Cat® 986K Wheel Loader

Technical Specifications

Engine		
Engine Model	C15	
Peak Power Speed	1,600 rpm	
SAE J1995	340 kW	456 hp
SAE J1995 (DIN)	462 hp	
ISO 14396	335 kW	449 hp
ISO 14396 (DIN)	455 hp	
Rated Speed	2,000 rpm	
Bore	137 mm	5.4 in
Stroke	171.5 mm	6.75 in
Displacement	15.2 L	927 in ³
Peak Torque (1,200 rpm) – SAE J1995	2411 N·m	1,778 lb-ft
Torque Rise	16%	

Two engine emission options are available:

1. Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
2. Meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

Operating Specifications		
Operating Weight – Standard	44 355 kg	97,785 lb
Operating Weight – High Lift	47 175 kg	104,005 lb
Rated Payload – Standard (Quarry Face)	10 tonnes	11.0 tons
Rated Payload – Standard (Loose Material)	12.7 tonnes	14.0 tons
Rated Payload – High Lift (Quarry Face)	10 tonnes	11.0 tons
Rated Payload – High Lift (Loose Material)	11 tonnes	12.1 tons
Bucket Capacity Range	5.0-10.3 m ³	6.5-13.5 yd ³
Cat Truck Match – Standard	770/735/740/745	
Cat Truck Match – High Lift	772/773	

Transmission					
Transmission Type		Cat planetary power shift			
Speed	km/h	mph	Speed	km/h	mph
Forward 1	7.3	5.0	Reverse 1	7.6	5.0
Forward 2	12.2	8.0	Reverse 2	13.6	8.0
Direct Drive Forward 2	12.7	8.0	Direct Drive Reverse 2	14.1	9.0
Direct Drive Forward 3	22.0	14.0	Direct Drive Reverse 3	25.0	16.0
Direct Drive Forward 4	39.0	24.0	Direct Drive Reverse 4	40.8	25.4

Hydraulic System – Lift/Tilt		
Lift/Tilt System – Circuit	Load Sense	
Lift/Tilt System Pumps	2 x 110 cc variable displacement	
Relief Valve Setting – Lift/Tilt	27 900 kPa	4,050 psi

Hydraulic Cycle Time	
Rackback	4.5 Seconds
Raise	9.0 Seconds
Dump	3.5 Seconds
Lower	5.2 Seconds
Lower Float Down	4.3 Seconds
Total Hydraulic Cycle Time (empty bucket)	21.3 Seconds

Hydraulic System – Steering	
Steering	ISO 5010:2007
Steering System – Circuit	Load Sense
Steering System – Pump	Piston, variable displacement
Steering Cutoff Pressure	27 600 kPa 4,000 psi
Total Steering Angle	70°

Service Refill Capacities		
Fuel Tank	535 L	141 gal
Fuel Tank (Short Lift)	481 L	127 gal
Diesel Exhaust Fluid Tank (Tier 4 Final/Stage V only)	23 L	6 gal

Air Conditioning System	
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO ₂ equivalent of 2.574 metric tonnes.	

Sound Performance – Tier 4 Final/Stage V		
	Standard	Suppression
Operator Sound Level (ISO 6396:2008)	72 dB(A)	72 dB(A)
Machine Sound Level (ISO 6395:2008)	112 dB(A)	110 dB(A)*

Sound Performance – Tier 3/Stage IIIA Equivalent		
	Standard	Suppression
Operator Sound Level (ISO 6396:2008)	72 dB(A)	72 dB(A)
Machine Sound Level (ISO 6395:2008)	112 dB(A)	110 dB(A)

*European Union Directive “2000/14/EC” as amended by “2005/88/EC.”

- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.



AEXQ2602-00 (10-2019)
Global

