



Cat[®] 994K

Wheel Loader

The Cat[®] 994K Wheel Loader delivers greater productivity at a lower cost per ton. In fact, you can move up to 8% more material per unit of fuel consumed. The numbers speak for themselves: 20% more traction, 17% more rimpull, 28% more breakout force and 29% increase in rated payload...with no increase in cycle time. Plus, it's easier to maintain than previous models, with greater component accessibility, and vastly extended air and oil filter lives.*

Designed to Get More Done...Using Less Time and Fuel

- Helps you move material more efficiently with improved power and control.
- High torque rise – 39% torque rise ensures high lugging forces during digging and acceleration in high rimpull conditions.
- Lowers cost per ton by utilizing advanced Impeller Clutch Torque Converter (ICTC) and Rimpull Control System (RCS) for modulated rimpull.
- Improves fuel efficiency in certain applications with lock-up clutch torque converter, providing direct drive.
- Economy Mode enables maximum efficiency in production per unit of fuel consumed by providing maximum power during dig and reduced power during the travel segments of the truck-loading cycle.
- Smooth-shifting, best-in-class Cat[®] Planetary Powershift Transmission with three forward/three reverse speeds to match your application.

Maximum Operator Comfort and Productivity... All Day, Every Day

- Load-sensing hydraulic steering system provides enhanced operator comfort with integrated steering and transmission control functions.
- Achieve precise positioning for easy loading in tight areas with 40 degrees of steering articulation.
- Utilizing the Economy Mode, operators maintain normal operation with the left pedal and implements while the 994K manages the engine speed.
- Fast, productive cycles enabled by four electronically controlled, fully variable piston pumps.
- Experience maximum responsiveness and control with Steering and Transmission Integrated Control System (STIC[™]).
- Deluxe operator seat with air suspension system, six-way adjustments and high-back design. (Heated and ventilated seat featuring leather seat bolster surfaces.)
- Available dual-lever or single joystick implement control to meet operator preference.

Easier to Maintain – and Rebuild – for Lowest Total Cost of Ownership

- Safe and convenient service with ground-level or platform access and grouped service points.
- Standard, comprehensive filtration system maintains clean fluids to enable high component reliability. (Delivering twice as long engine oil and filter life.)
- Powered fresh air filter extends cab filter life. (Delivering three times longer air filter life.)
- Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.
- Reduce downtime with VIMS system notifications so your operators and technicians can resolve problems before failure.
- Built for multiple lives, the 994K is one of our most rebuilt products. Reused or remanufactured components can deliver a cost savings of 40-70%.

Built to Handle Your Toughest Working Conditions

- Excellent visibility to the bucket edges and work area through a Z-bar design.
- High load stresses are absorbed by the solid steel lift arms, increasing durability.
- Full box-section rear frame resists torsional shocks and twisting forces to maximize life of mounted components.
- Frames utilize one-piece castings in key areas to maximize frame durability and optimize efficiency.
- Rear axle mounting to frame optimized to better disperse loads for increased structural integrity.
- Heat-treated gears provide durability and extra-long life.

*Compared with previous 994H model.



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Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			SAFETY		
Engine, 3516E High Displacement (HD)	✓		Ground-access ladders	✓	
Mechanical Electronic Unit Injector (MEUI™-A), Air-to-Air Aftercooling (ATAAC) diesel, turbocharged/aftercooled			Powered ground-access stairs		✓
Planetary powershift, 3F/3R electronic control transmission	✓		Rear-vision camera	✓	
Oil Renewal System (ORS)* (for increased time between oil changes)		✓	Cat Detect (Rear Object Detection)		✓
Oil-cooled, multi-disc, service brakes	✓		Front frame access with steps	✓	
LINKAGE			Front walkway around cab	✓	
Standard lift (40.8 tonnes/45 tons face, 54.4 tonnes/60 tons loose)	✓		Pump bay access ladders with T-handle and platform	✓	
High lift (38.1 tonnes/42 tons face, 49.9 tonnes/55 tons loose)		✓	Tie-offs on ROPS and radiator guards	✓	
ELECTRICAL			Steering frame lock	✓	
LED warning lights (pattern selectable)	✓		Wheel chocks		✓
LED lighting system (working lights, access and service platform lights, turn signals/hazard lights)	✓		Stairways on both sides of the machine	✓	
24V starting and charging system	✓		LED stairway and access lights	✓	
Electric starters	✓		Toe kicks	✓	
OPERATOR ENVIRONMENT			Electric (field and shop) horns	✓	
Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment, and adjustable-length seat cushion	✓		Retractable seatbelt, 76 mm (3 in) wide	✓	
Bonded glass, tinted	✓		Trainer seat with lap belt, 76 mm (3 in) wide	✓	
Rubber-mounted, high-impact resistant solar control glass (Complies with AS/NZS 2080)		✓	Back-up alarm	✓	
Dual lever lift and tilt function controls	✓		Secondary steering	✓	
Joystick lift and tilt function controls		✓	COLD WEATHER		
AM/FM/AUX radio		✓	Cold-weather cooling fan bypass (recommended for temperatures below -29° C [-20° F])		✓
AM/FM/AUX/USB/BT/CD/SAT radio		✓	Heavy-duty starter (provides an additional electric starter motor and two additional batteries for a total of three starter motors and six batteries) (recommended for temperatures below 0° C [32° F])		✓
			240V engine oil and coolant heating elements (recommended in conditions from -18° C to -30° C [0° F to -22° F])		✓
			Fuel heater (heated by recirculation using engine heat and a heat exchanger) (recommended in conditions from -18° C to -30° C [0° F to -22° F])		✓
			Heated mirrors (recommended for below-freezing temperatures)		✓

*Not available in all regions.

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
MACHINE CONTROL AND GUIDANCE			SERVICE <i>(continued)</i>		
CPM Payload Weighing System	✓		Lockable service access doors	✓	
Cat Terrain ready		✓	Ecology drains for engine, radiator, hydraulic tank, steering and brake tank, brake cooling tank and axles	✓	
FUEL TANK			High-speed engine oil change system	✓	
12 hour (3440 L/910 gal)	✓		Ground-level fast-fill fuel system	✓	
24 hour (5700 L/1,506 gal)		✓	Transmission guard	✓	
COOLING			Drawbar hitch with pin	✓	
Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])	✓		Cat XT™ hoses	✓	
High ambient package (recommended for site conditions that do not exceed 53° C [127° F])		✓	Left-side service center	✓	
RIMS AND TIRES			Oil sampling valves	✓	
Rims – 1118 mm (44") (44 × 57)		✓	Premixed 50% concentration of extended-life coolant with freeze protection to –34° C (–29° F)	✓	
Rims – 1194 mm (47") (47 × 57)		✓	Rear access to cab and service platform	✓	
Tires – 58/85-57 84PR L4 (require 47" rims)		✓	Vandalism protection caplocks	✓	
Tires – 53.5/85-57 FS 76PR L5 (require 44" rims)		✓	Cooling cleanout service package	✓	
SERVICE			VIMS download and Cat Electronic Technician service port in bumper	✓	
Ground-level service center	✓		Product Link™ satellite		✓
In-tank mounted cartridge-type case drain filters with in-line magnetic plugs on implement, cooling fan, brake and steering pumps	✓		Product Link cellular		✓
High-pressure screens on the output side of implement, cooling fan, brake and steering pumps	✓		Product Link (dual mode – satellite/cellular)		✓
Pump efficiency monitoring	✓		Service lights (engine bay, service center)	✓	
Automatic lubrication system greases the linkage, hitch, steering and axle trunnion bearings	✓		Additional service lights (pump bay, front frame and bumper)		✓
Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility	✓		EFFICIENCY		
Rock guards on linkage grease lines	✓		Economy Mode	✓	
			Variable displacement implement pumps	✓	
			Variable displacement load-sensing steering	✓	
			Variable displacement cooling fan pump	✓	
			Torque converter lock-up clutch	✓	
			SOUND		
			Sound-suppression package		✓

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Technical Specifications

Engine		
Engine Model	Cat 3516E	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V or U.S. EPA Tier 1 Equivalent	
Rated Speed	1,600 rpm	
Gross Power – ISO 14396	1377 kW	1,847 hp
Gross Power – SAE J1995	1394 kW	1,870 hp
Net Power – SAE J1349		
Standard Ambient	1297 kW	1,739 hp
High Ambient	1265 kW	1,696 hp
Bore	170 mm	6.7 in
Stroke	215 mm	8.5 in
Displacement	78.1 L	4,766 in ³
Peak Torque @ 1,200 rpm – SAE J1995	11 591 N·m	8,549 lbf·ft
Torque Rise	39%	
<ul style="list-style-type: none"> • The power ratings apply when tested under the reference conditions for the specified standard. • The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and muffler. • The gross power advertised is with the fan at maximum speed. 		

Operating Specifications		
Operating Weight – Standard	240 018 kg	529,149 lb
Operating Weight – High Lift	240 598 kg	530,428 lb
Rated Payload – Standard		
Face Material	40.8 tonnes	45 tons
Loose Material*	54.4 tonnes	60 tons
Rated Payload – High Lift		
Face Material	38.1 tonnes	42 tons
Loose Material*	49.9 tonnes	55 tons
Bucket Capacity Range	17.2-43.6 m ³	22.3-57 yd ³
*Please contact your local dealer to determine if your application is suitable for this increased rated payload.		

Air Conditioning System

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

Transmission		
Transmission Type	Cat Planetary Power Shift	
Forward 1	7.4 km/h	4.6 mph
Forward 2	12.9 km/h	8.0 mph
Forward 3	21.9 km/h	13.6 mph
Reverse 1	8.1 km/h	5.0 mph
Reverse 2	14.1 km/h	8.8 mph
Reverse 3	24.0 km/h	14.9 mph
Direct Drive – Forward 1		
Lock-up disables		
Direct Drive – Forward 2	14.0 km/h	8.7 mph
Direct Drive – Forward 3	24.5 km/h	15.2 mph
Direct Drive – Reverse 1		
Lock-up disables		
Direct Drive – Reverse 2	15.5 km/h	9.6 mph
Direct Drive – Reverse 3	27.0 km/h	16.8 mph
• Travel speeds based on 58/85-57 tires.		

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	Positive Flow Control	
Lift/Tilt System – Pumps	Variable Displacement Piston	
Maximum Flow at 1,700 rpm Engine Speed	2047 L/min	541 gal/min
Relief Valve Setting – Lift/Tilt	32 500 kPa	4,587 psi
Cylinders, Double Acting		
Lift, Bore and Stroke	370 × 1713 mm	14.6 × 67.4 in
Tilt, Bore and Stroke	310 × 1086 mm	12.2 × 42.8 in
Pilot System		
Open Loop and Pressure Reducing		

Hydraulic Cycle Time

Rack Back	4.9 seconds
Raise	12.6 seconds
Dump	3.1 seconds
Lower Float Down	4.2 seconds
Total Hydraulic Cycle Time (empty bucket)	23.5 seconds

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