# 988K XE Wheel Loader

Engine Power (ISO 14396:2002) Operating Weight – Standard Operating Weight – High Lift 393 kW (527 hp) 52 781 kg (116,362 lb) 54 258 kg (119,618 lb) PAT

988KxE

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



HAT

## THE CAT® 988KXE LOWER COST PER TON WITH INDUSTRY-LEADING EFFICIENCY AND PRODUCTIVITY

The Cat<sup>®</sup> 988K XE combines the unmatched durability, reliability, and productivity of the proven 988 platform with the efficiency of advanced electric drive. When paired with our 770, 772, 773, or 775 off-highway trucks, the 988K XE achieves even greater productivity.



#### HELPING YOU MOVE MORE MATERIAL, MORE EFFICIENTLY

The 988K XE lets you move more material at a lower cost so you can achieve production targets, deliver on your commitments, meet deadlines, and maximize your profitability.

- + PRODUCTIVITY BOOSTED UP TO 5% WITH LATEST UPDATES
- + IMPROVED CONTROL TECHNOLOGY REDUCES FUEL BURN AND MOVES MORE MATERIAL
- + ENHANCED OPERATOR CONTROLS DELIVER GREATER EFFICIENCY, PRODUCTIVITY, AND COMFORT



## PROVEN POWER, LOWER FUEL BURN

The Cat C18 engine delivers more than enough power for your most demanding applications while keeping your cost per ton low. Fully integrated electronic engine controls work in concert with the entire machine to make your fuel go further, and Engine Idle Shutdown prevents unnecessary idling. The C18 meets Tier 4 Final/Stage V emission standards and is equipped with eco drains to reduce environmental contamination from fluids.

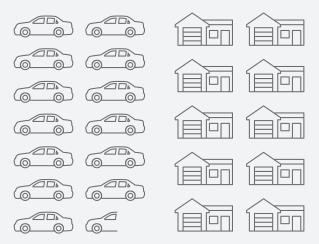
## BOOST EFFICIENCY UP TO 49%

The 988K XE's advanced electric drive systems already increase efficiency by 25% over the base 988K model. That can increase to as much as 49% in tough face-loading applications.

## DRIVEN TO LOWER EMISSIONS

THE **GREATER FUEL EFFICIENCY OF THE 988K XE** REDUCES HARMFUL GREENHOUSE GAS EMISSIONS COMPARED TO OTHER LOADERS.

The difference is as much as the emissions **13.5 CARS** or nearly **10 HOUSES** produce in one year.



Source - 988, Cat® Production Study, Jan 2017, TPG

https://www.epa.gov/energy/greenhouse-gas-equivalencies-calculator



## ELECTRIC DRIVE INCREASES PRODUCTIVITY UP TO 10%

The 988K XE's optimized electric drive requires no shifting and increases productivity during load-and-carry applications by up to 10%.

## UP TO 10% INCREASE IN DOWNGRADE SPEED

Engine improvements increase downgrade speed by up to 10% and automatic retarding controls help maintain speed on grade.

## UP TO 15% IMPROVED CYCLE TIMES WITH NEW TECHNOLOGY

With optional Operator Coaching, cycle times are improved up to 15%, and bucket fill factor is increased up to 10%. New Autodig features help optimize the dig portion of every cycle, with up to 10% improvement, all designed to help the operator excel.



## >>>> MATCH AND **MOVE MORE**

Achieve even greater production with an optimized truck match to maximize the volume of material moved at the lowest operating cost per ton.

Cat 770 36 t (40 ton) 3 PASSES
Cat 772 45 t (50 ton) 4 PASSES
Cat 773 56 t (61.7 ton) 5 PASSES
Cat 775 64 t (70.5 ton) 6 PASSES

THE CAT 988K XE IS OPTIMALLY MATCHED WITH CAT OFF-HIGHWAY TRUCKS.

## DO MORE FOR LESS WITH POSITIVE FLOW CONTROL

The Positive Flow Control (PFC) hydraulic system provides more power with less fuel burn, providing consistent performance and better control. The optimized pump control produces hydraulic oil flow that is proportionate to implement lever movement. The PFC system also provides improved bucket feel and control through increased hydraulic response.

## ELECTRO HYDRAULIC SYSTEMS BOOST PRODUCTIVITY

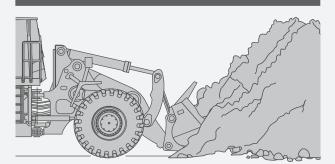
With the 988K XE's electro hydraulic controls, operators have the precise maneuvering control that leads to excellent productivity. Electronically controlled hydraulic cylinder stops and easy-to-use soft detent controls make precise movements simple and comfortable. A load-sensing steering system with 43 degrees of articulation allows precise positioning and easy loading in tight areas.

## OPTIONAL COUNTERWEIGHT ENABLES PRECISION OPERATION

Load and carry applications are easier to optimize when operators have more precise control. An optional load and carry counterweight improves the stability of the machine and allows faster, more precise maneuvering.

## **15% FASTER** CYCLE TIMES AND **10% BETTER** BUCKET FILL FACTORS

#### OPERATOR COACHING SYSTEM DELIVERS VITAL FEEDBACK TO THE OPERATOR THROUGHOUT EVERY CYCLE, HELPING THEM WORK MORE EFFICIENTLY



- PROPERLY SHORTEN TRAVEL
- AVOID UNRACKING IN-DIG
- ENTER THE PILE WITH A LEVEL BUCKET
- REDUCE THE DUMP HEIGHT AND USE THE KICKOUT

#### DESIGNED TO HELP EVERY OPERATOR EXCEL

#### SINGLE PEDAL OPERATION

New Go-Pedal with three dynamic braking levels gives operators easier single right-hand pedal operation.

#### STEERING AND TRANSMISSION INTEGRATED CONTROL (STIC™) MAXIMIZES RESPONSIVENESS

Though the 988K XE's electric drive does not shift in the traditional sense, the system is equipped with virtual gears to enable easier machine controllability. The STIC<sup>™</sup> system combines virtual gear selection and directional control into a single lever, delivering maximum responsiveness and control.

#### **AUTODIG OPTIMIZES PERFORMANCE**

New optional Cat Autodig features simplify the digging phase to help increase dig cycle optimization by up to 10%. Further reducing tire slip and wear, available Auto Set Tires sets the front tires to promote proper loading techniques. Lift stall prevention technology automatically manages rimpull in-dig to prevent hydraulic stall while lifting through the face, resulting in less time spent in the pile. This available option complements the already standard Tire Slip Prevention.



## **BEST-IN-CLASS OPERATOR COMFORT AND ERGONOMICS**

## EASY ENTRY

Operators access the cab by 45-degree anti-skid stairways mounted on both sides of the machine. The STIC control column folds up and out of the way to make cab entry and seat adjustment easier.



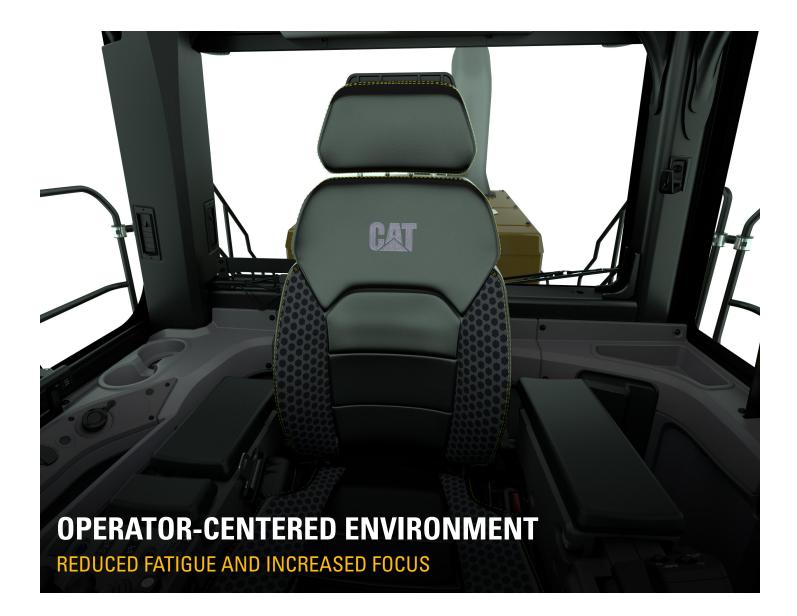
The Premium Plus seat delivers total comfort throughout the workday. Standard features include leather finish, forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, and dynamic end dampening. The seat also features a flip-up armrest for easier ingress/egress.

#### CAB COMFORT MEASURES

The 988K XE's cabin remains comfortable at all times. Isolated cab mounts reduce vibration, while filtered, pressurized air and automatic climate control maintain an agreeable atmosphere. A floor storage tray keeps items out of the operator's way.

#### LOW OPERATOR SOUND LEVELS

Sound levels are lower than in previous models, and a newly redesigned STIC steering valve reduces steering noise by 47%.



## **TOTAL SAFETY FOCUS** KEEPING EVERY WORKER SAFE AND AWARE

Your most important job is keeping your team safe. We are constantly improving our products in an effort to provide a safe work environment for the operator and those who work on your jobsite.



#### **EASY AND SAFE ACCESS**

The cab is accessed by 45-degree angle anti-slip stairways on the left and right sides, with standard stairway lighting. All access walkways are continuous to avoid trip hazards, equipped with highly effective anti-slip texture, and designed to provide three points of contact during all tasks. Many service points are accessible from ground level.



#### SEE AND BE SEEN WITH HIGH VISIBILITY

The cab provides excellent sight lines, and a rear-vision camera enhances visibility behind the machine, helping operators work more safely and confidently. Optional heated mirrors and Cat Detect radar system are available to give the operator even greater awareness of the surrounding environment. High-visibility LED warning beacons and HID or LED work lights are available as options.



#### VOLTAGE WARNING SYSTEM

A hazardous voltage lamp assures operators and maintenance personnel that the electric drive system is de-energized and the machine is safe to work on.



## A STRONG LEGACY

The 988 series has proven durable and reliable for nearly 60 years, and the 988K XE is 90% identical to the well-respected 988K.

### **STRONG STRUCTURES**

A full box-section rear frame resists torsional shock and twisting forces. Heavy-duty steering cylinder mounts efficiently transmit steering loads into the frame.

### **STRONG CONNECTIONS**

Every linkage and connection is engineered for maximum durability. Axle mountings have increased structural integrity, and the lower hitch pin, frame plate, and bearing size have been increased for greater strength and longer life. The greased pin design of the front linkage pin joints help increase their service life.

### **STRONG ARMS**

The lift arms are solid steel for excellent stress absorption, and the strength of key pin areas is enhanced through the use of one-piece castings. The Z-bar design of the arms enhances worksite visibility.

### PROTECTED ELECTRONICS

The 988K XE's powered electronics feature solid state components to maximize durability in tough operating conditions and are sealed for total protection from weather. They are also liquid cooled to maximize heat protection and ensure long service life.

## A PROTECTED POWER TRAIN

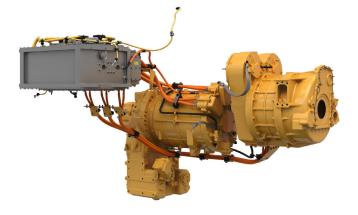
When the machine is turned off, a Delayed Engine Shutdown system determines whether the engine needs additional cooldown time. If so, it moves the engine into idle for a short period before final shutdown. This preserves engine life and durability.

## **BUILT FOR LONG LIFE** SYSTEMS ENGINEERED TO MAXIMIZE YOUR RETURN ON INVESTMENT

The 988K XE is designed so that major components require less maintenance and fewer consumables and last twice as long as the equivalent in machines with mechanical transmissions.

#### FEWER MOVING PARTS, LESS DOWNTIME

The electric drive systems of the 988K XE have fewer moving parts than mechanical torque converters and transmissions and have much longer maintenance intervals.



#### POWER TRAIN THAT MAXIMIZES YOUR INVESTMENT

The electric drive system increases engine life, extending the time between power train rebuilds, and helping reduce rebuild cost. The drive motor, generator, and inverter are highly durable and built to last through the second engine's life.



#### **CAT TECHNOLOGY AND SUPPORT**

System notifications from the Vital Information Management System (VIMS<sup>™</sup>) allow your operators and technicians to resolve problems before failure, helping reduce downtime and maintenance costs. You'll also have the full backing of Caterpillar's legendary support system: preventive maintenance programs, guaranteed maintenance contracts, excellent parts availability, and a worldwide dealer network. Genuine Cat remanufactured parts will lower your costs and further reduce the environmental impact of the machine over its service life.

## CONSUMABLES LAST LONGER, REDUCING COSTS

With the 988K XE's advanced electric drive system, **power train oil** lasts twice as long, and filters last 4 times as long.

THAT MEANS LOWER COSTS FOR YOU AND REDUCED ENVIRONMENTAL IMPACT.





## THRIVE WITH CAT TECHNOLOGY SMART SYSTEMS THAT SAVE YOU MONEY

The 988K XE features empowering technology that helps you work smarter, do more, and protect your investment.



#### **■ UPGRADED TOUCHSCREEN WITH VIMS**<sup>™</sup>

The improved touchscreen and user interface allow intuitive operation and easy navigation. VIMS decreases service time by keeping operators and technicians informed about machine systems and allows access to a wide range of machine data, helping reduce maintenance overhead and providing opportunities to increase productivity and efficiency.

- Create productivity reports with payload and work cycle segmentation.
- Identify operator training needs through productivity data.
- Access detailed data logging of machine parameters and diagnostic codes.
- Track sensor information with trend analysis and histograms to monitor machine health.



#### TIRE PRESSURE MONITORING SYSTEM (TPMS)

This fully integrated feature allows operators to monitor tire inflation, keeping it optimized for fuel efficiency and best grip. Using the cab Information Display, the operator can quickly see the current pressure settings and temperature of each tire.



#### **O** CAT PRODUCTION MEASUREMENT (CPM)

Cat Production Measurement is an on-the-go scale system that brings payload weighing to the cab so operators can work more productively and deliver accurate loads with confidence. CPM's advanced weighing modes assist with payload accuracy and speed the loading cycle.

\*Not legal for trade.









**ROCK BUCKETS** 

**HEAVY-DUTY ROCK BUCKETS** 

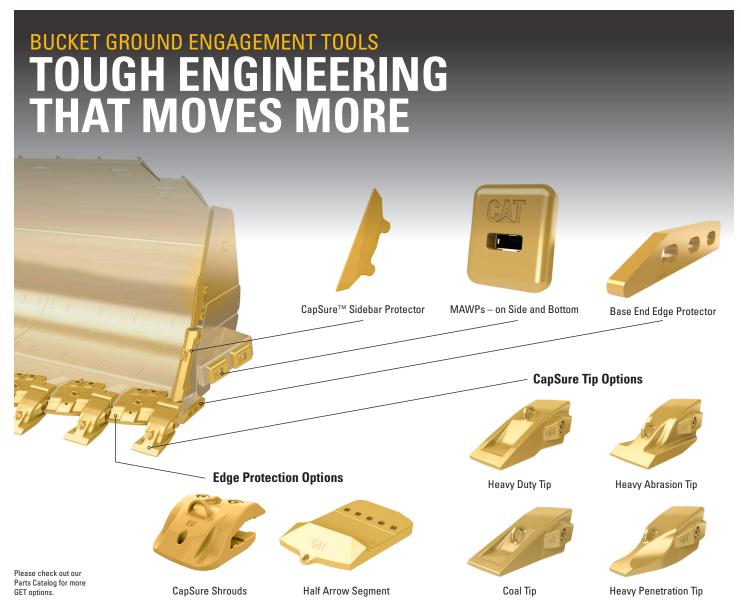
**GENERAL PURPOSE BUCKETS** 

**COAL BUCKETS** 

#### **TOOLS TO GET EVERY JOB DONE AND LOWER YOUR COSTS**

Caterpillar's ground engagement options give you the ability to adapt to any condition and do so while protecting your investment.

- Each bucket is designed to make moving the appropriate material easy and efficient, and each is engineered with special features that increase durability and service life.
- Cat Advansys<sup>™</sup> Ground Engaging Tools (GET) give you even more ability to adapt and specialize for higher profitability. These modular tips protect expensive components, reduce your operating costs, and help you get the most out of your machine's performance.
- A number of GET components can be installed with simple, hammerless CapSure<sup>™</sup> Retention Technology. CapSure tips, shrouds, and sidebar protectors are easily locked and unlocked with a 180-degree turn of a 3/4 inch (19 mm) ratchet, making the process fast, easy, and safe.





## THE 988K XE MILLYARD ARRANGEMENT WORLD-CLASS EFFICIENCY AND DURABILITY

## THE PERFORMANCE YOU NEED AT A LOWER COST PER TON



#### **PROVEN DESIGN THAT LOWERS YOUR COSTS**

The 988K XE Millyard uses all the highly durable structures, the advanced controls, and the efficient, long-life power train of the standard machine but provides the perfect tools and systems for forestry operations. This means lower maintenance and fuel costs with higher productivity.



#### **ADDED STRENGTH TO MOVE 20% MORE**

Unload a typical full-length log truck in a single pass with the larger lift and tilt cylinders and a unique tilt lever to maximize linkage force. Up to 20% more lift capacity and 26% more tilt capacity over the standard 988K XE.



#### THE RIGHT TOOLS FOR EVERY JOB

Three different fork designs with differing clamp and tine arrangements give you the right tool for any load, from individual logs to massive bundles. Open, high-visibility designs allow operators to work more efficiently and safely. A specially designed high-capacity bucket is perfect for moving woodchips.



#### CHANGE TOOLS QUICKLY

With an optional quick coupler and third valve hydraulic functions, your operators will be able to change forks or buckets in seconds.

## **TECHNICAL SPECIFICATIONS**

See cat.com for complete specifications.

ENGINE			
Engine Model Cat® C18			
Rated Speed	1,700	) rpm	
Peak Power Speed	1,500 rpm		
Engine – ISO 14396:2002	393 kW	527 hp	
Gross – SAE J1995:2014	439 kW	588 hp	
Net Power – SAE J1349:2011	401 kW	538 hp	
Bore	145 mm	5.7 in	
Stroke	183 mm	7.2 in	
Displacement	18.1 L	1,105 in <sup>3</sup>	
Peak Torque @ 1,200 rpm – SAE J1995:2014	3023 N·m	2,230 lb-ft	
Torque Rise	58%		

• Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.

• Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

OPERATING SPECIFICATIONS				
Operating Weight	52 781 kg	116,362 lb		
Rated Payload – Quarry Face	11.3 tonnes	12.5 tons		
Rated Payload – Loose Material	14.5 tonnes	16.0 tons		

BUCKET CAPACITIES

4.7-13.0 m<sup>3</sup> 6.2-17.0 yd<sup>3</sup>

Variable

displacement piston

32 800 kPa 4,757 psi

	, 						
TRANSMISSION							
Transmission Type Cat switched reluctance electric drive							
Forward 1	7.0 km/h	4.3 mph	Reverse 1	7.0 km/h	4.3 mph		
Forward 2	11.3 km/h	7.0 mph	Reverse 2	11.3 km/h	7.0 mph		
Forward 3	22.2 km/h	13.8 mph	Reverse 3	28.2 km/h	17.5 mph		
Forward 4	32.1 km/h	20.0 mph	Reverse 4	N/A	N/A		
HYDRAULIC SYSTEM – LIFT/TILT							
Lift/Tilt System – Circuit				EH – Posit Control, Fl	ive Flow ow Sharing		

Lift/Tilt System Pumps

**Bucket Range** 

Relief Valve Setting – Lift/Tilt

HYDRAULIC CYCLE TIME	
Rackback	4.5 seconds
Raise	8.0 seconds
Dump	2.2 seconds
Lower Float Down	3.5 seconds
Total Hydraulic Cycle Time (empty bucket)	18.2 seconds

HYDRAULIC SYSTEM – ST	TEERING
Steering System – Circuit	Pilot, load sensing
Steering System – Pump	Piston, variable displacement
Steering Cut Off Pressure	30 000 kPa 4,351 psi
Total Steering Angle	86°
Steering Cycle Time (high idle)	3.4 seconds
Steering Cycle Time (low idle)	5.6 seconds

SERVICE REFILL CAPACITIE	S		
Fuel Tank	555 L	147.0 gal	
DEF Tank	33 L	8.7 gal	
• All nonroad Tier 4 Final/Stage V diesel engines are required to use:			

– The machine has the flexibility to run on either ultra-low-sulfur diesel fuel (ULSD with 15 ppm of sulfur or less).

 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

\*Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details. \*\*Engines with aftertreatment devices can use up to B20. Engines with no

aftertreatment devices can use higher blends, up to B100. – Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9

specifications are required.

- Only use DEF that meets ISO 22241-1 standards.

DIMENSIONS					
	Standard Lift		High Lift		
Ground to Top of ROPS	4202 mm	13.8 ft	4202 mm	13.8 ft	
Ground to Top of Exhaust Stacks	4521 mm	14.8 ft	4521 mm	14.8 ft	
Ground to Top of Hood	3334 mm	10.9 ft	3334 mm	10.9 ft	
Ground to Bumper Clearance	933 mm	3.1 ft	933 mm	3.1 ft	
Rear Axle Center Line to Bumper	3187 mm	10.5 ft	3187 mm	10.5 ft	
Front Axle Center Line to Bucket Tip	4254 mm	14.0 ft	4661 mm	15.3 ft	
Wheel Base	4550 mm	14.9 ft	4550 mm	14.9 ft	
Maximum Overall Length	11 991 mm	39.3 ft	12 398 mm	40.7 ft	
Ground to Lower Hitch Clearance	568 mm	1.9 ft	568 mm	1.9 ft	
Ground to Center of Axles	978 mm	3.2 ft	978 mm	3.2 ft	
Clearance at Maximum Lift (45° Dump)	3641 mm	11.9 ft	4043 mm	13.3 ft	
B-Pin Height at Maximum Lift	5485 mm	18.0 ft	5887 mm	19.3 ft	
Maximum Overall Height – Bucket Raised	7455 mm	24.5 ft	7849 mm	25.8 ft	
Reach at Maximum Lift (45° Dump)	1981 mm	6.5 ft	2062 mm	6.8 ft	

• Specifications are calculated with 6.9 m<sup>3</sup> (9.0 yd<sup>3</sup>) rock bucket and Michelin XLDD2 tires with 978 mm (3.2 ft) centerline of rear axle height.

#### **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 2.574 metric tonnes.

SOUND	
	Standard
Operator Sound Level (ISO 6396:2008)	72 dB(A)
Machine Sound Level (ISO 6395:2008)	109 dB(A)
	10

• 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% 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.

• 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% of the maximum engine cooling fan speed.

## **STANDARD & OPTIONAL EQUIPMENT**

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

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL	POWER TRAIN (CONTINUED)	STANDARD	OPTIONAL
Air conditioner	٠		Starting aid, ether, automatic	٠	
Cat® Detect, object detection system		•	Throttle lock, electronic	٠	
Cat Vision, rear vision camera system	٠		Manual switch and automatic fuel priming	٠	
Cab precleaner		•	ELECTRICAL	STANDARD	OPTIONAL
Cab, sound suppressed and pressurized,					OFTIONAL
integrated rollover protective structure			Alarm, back-up	•	
(ROPS/FOPS) radio ready for entertainment, includes antenna, speakers, and converter	•		Alternator, single 150 amp	•	
(12-volt 5-amp) and power port			Converter, 10/15 amp, 24V to 12V	•	
Cat Production Measurement		•	Hazardous voltage lamp	•	
Cat Production Measurement ready	•		Lighting system (halogen, work lights, access and service platform lighting)	٠	
Heater, defroster	٠		Starting and charging system, 24V	٠	
Horn, electric	•		Starter emergency start receptacle	•	
LED warning strobe		•	Starter lockout in bumper	٠	
Lights, directional	•		Transmission lockout in bumper	•	
Lunchbox, beverage holders	٠			-	
Mirrors, rearview (externally mounted)	•		ADDITIONAL EQUIPMENT	STANDARD	OPTIONAL
Radio, AM/FM/CD/MP3 Bluetooth®			Autodig feature, Tire Slip Prevention	٠	
with Satellite Sirius		•	Autodig features, Auto Set Tires & Lift Stall Prevention		٠
Radio, CB ready	•		Autolube with auto shutoff		٠
Seat, Premium Plus containing forced air heating and cooling, 2-way thigh adjustment,			Automatic bucket lift kickout/positioner		٠
power lumbar and back bolster adjustment, ride stiffness, dynamic end dampening and	٠		Base machine price includes a rim allowance	٠	
leather finish			Cat Clean Emission Module (CEM)	٠	
Seat belt minder	٠		Cold weather starting (extra starter		
Seat belt, retractable, 76 mm (3 in) wide	•		plus two batteries)		•
STIC™ System	٠		Doors, service access (locking)	•	
UV glass	•		Ecology drains for engine, radiator,	•	
Virtual gear indicator	٠		hydraulic tank		
Wet-arm wipers/washers (front and rear) –	•		EZ Clean cooling system		•
intermittent front and rear wipers			Fast fill fuel system (Shaw-Aero)		•
Window pull-down visor		•	Front and rear roading fenders		•
POWER TRAIN	STANDARD	OPTIONAL	Hitch, drawbar with pin	٠	
Antifreeze -50°C (-58°F)		٠	Hydraulic, steering and brake filtration/ screening system	٠	
Automatic retarder controls	•		Hydraulically driven demand fan	•	
Brakes, oil-cooled, multi-disc,	•		Load and carry counterweight		•
service/secondary	-		Oil sampling valves	•	
Case drain screens	٠		Operator Coaching		•
Cat Integrated Powered Electronics	٠		Premixed 50% concentration of extended		
Cat SR drive motor	٠		life coolant with freeze protection to	٠	
Cat SR generator/pump drive	٠		-34°C (-29°F)		
Crankcase guard		•	Rear access to cab and service platform	•	
Electro hydraulic parking brake	٠		Steering, load sensing	•	
Engine block heater 120V or 240V		•	Tire Pressure Monitoring System		•
Engine brake, SEA		•	Toe kicks	٠	
Engine, C18 MEUI™ diesel, turbocharged/aftercooled	•		Transmission brake Vandalism protection caplocks	•	
Engine oil change system, high speed, Wiggins		•	Wheel chocks		•
Ground level engine shutoff	٠		OPTIONAL CONFIGURATIONS	STANDARD	OPTIONAL
High ambient cooling – software		٠	Aggregate Handler		٠
Turbine precleaner, engine air intake	•		Load and Carry		•
Radiator, Aluminum Modular Radiator (AMR)	•		, Millyard		



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