





Engine

Engine Model Emissions

Gross (ISO 14396) Net Power – SAE J1349 Cat[®] C18 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV Technology, Tier 2 Equivalent 432 kW 580 hp 403 kW 541 hp

6.4-7.6 m ³	8.3-10 yd ³
11.3 tonnes	12.5 tons
51 062 kg	112,574 lb
	11.3 tonnes

Lower your cost per ton with industry leading efficiency.



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Cat[®] Large Wheel Loaders are designed with durability built in, ensuring maximum availability through multiple life cycles. With optimized performance and simplified serviceability, our machines allow you to move more material efficiently and safely at a lower cost per ton.

Introduced in 1963, the 988 has been the industry leader for 50 years. Focused on helping our customers succeed, we have continued to build upon each new series. The 988K continues our legacy of reliability, performance, safety, operator comfort, serviceability, and efficiency.

Efficiency Delivering fuel efficiency you demand through integrated machine systems.



Economy Mode

Enabling maximum productivity and efficiency, all day every day.



The 988K systems work hard to save you fuel through advanced technologies. Utilizing On Demand Throttle, operators maintain normal operation with the left pedal and implements while the 988K manages the engine speed.

- Provides similar control and feel to our traditional throttle lock feature.
- Efficiency of manual throttle and the ergonomics of throttle lock.
- Reduced fuel consumption by up to 20% compared to the 988H.

Cat C18 ACERT™ Engine

The Cat C18 ACERT engine is built and tested to meet your most demanding applications while meeting U.S. EPA Tier 4 Final/ EU Stage IV Technology, Tier 2 Equivalent emission standards.

- Fully integrated electronic engine controls works in concert with the entire machine to make your fuel go farther.
- Use less fuel idling with Engine Idle Shutdown.
- Maximized durability with Delayed Engine Shutdown.



Featuring all new Advanced Productivity Electronic Control Shifting (APECS) transmission controls provides greater momentum on grades and fuel savings by carrying that momentum through the shift points.

Impeller Clutch Torque Converter (ICTC)

Enable your operators to maximize efficiency by varying machine rimpull while putting more horsepower to hydraulics.

- Reduced tire wear
- Enables full throttle shifts for faster cycle times
- Provides smooth approach to the dump target for less spillage and faster cycle times.



- Eliminates TC losses while lowering system heat
- Improves travel speeds
- Reduces cycle times in load and carry operations



Structures Best built for the toughest conditions.





Lift Arms

- 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.
- Enhance strength in key pin areas through the use of one piece castings.
- Stress relieved lift arms increase durability and lengthen time to repair.



Robust Structures

Your bottom line is improved by highly durable structures that achieve multiple life cycles and withstand the toughest loading conditions.

- Full box-section rear frame resists torsional shock and twisting forces.
- Heavy-duty steering cylinder mounts efficiently transmit steering loads into the frame.
- Axle mounting has been optimized for increased structural integrity.
- Lower hitch pin, frame plate, and bearing size have been increased for longer life.



Front Linkage

To ensure long life and reliability, the linkage pin joints feature a greased pin design with an auto lube system attachment available from the factory.





Steering and Transmission Integrated Control System (STIC™)

Experience maximum responsiveness and control with STIC that combines directional selection, gear selection and steering into a single lever.

- Simple side-to-side motion turns machine right or left, minimizing operator movements.
- Easy to operate finger controlled gear selection.
- Smoother, faster cycles and less operator fatigue through the use of low effort integrated controls.

Cat Planetary Powershift Transmission

Building your success begins with a best-in-class transmission designed specifically for mining applications.

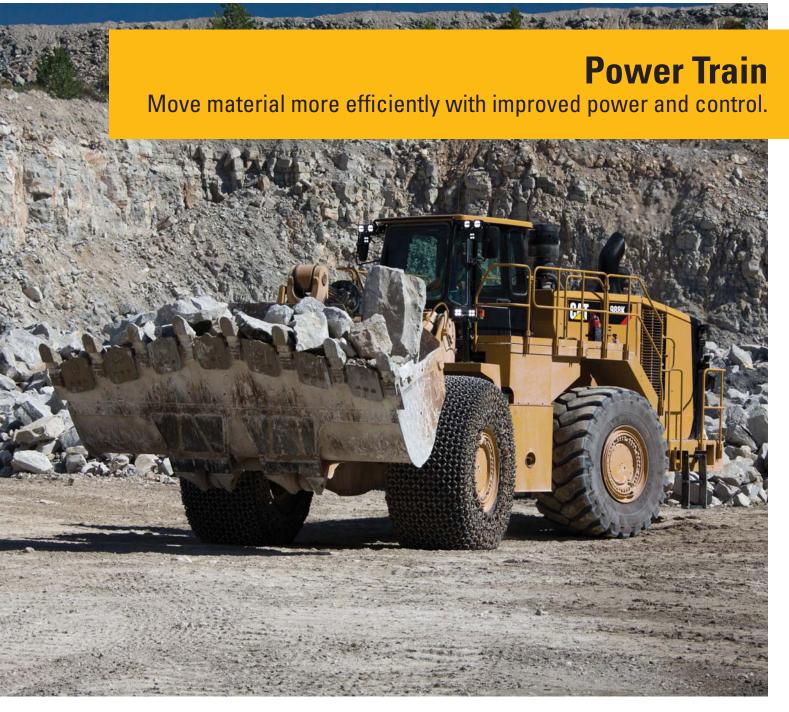
- Consistent, smooth shifting and efficiency through integrated electronic controls that utilize Advanced Productivity Electronic Control Strategy (APECS).
- Long life and reliability through heat treat gear and metallurgy.
- Four forward and three reverse speeds to match your application.

Cat C18 ACERT Engine

Durability and efficiency at the heart of your 988K comes from the Cat C18 ACERT Engine. Optimum performance is built in through the use of a 6 cylinder, four-stroke design.

- Optimized performance and quick engine response with an electronic control module.
- Reliable efficiency with complete control over injection timing, duration and pressure with Mechanically Actuated Electronic Unit Injection (MEUI™).
- Extended engine life and improved fuel efficiency with reduced rated speed.
- Designed to meet U.S. EPA Tier 4 Final/EU Stage IV Technology, Tier 2 Equivalent emission standards.





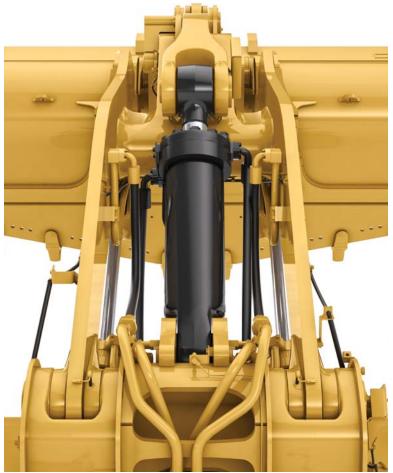
Impeller Clutch Torque Converter (ICTC) and Rimpull Control System (RCS)

Lower your cost per ton utilizing advanced ICTC and RCS for modulated rimpull.

- Reduce tire slippage and wear by modulating rimpull from 100 to 25 percent while depressing left pedal. After 25 percent rimpull is achieved the left pedal applies the brake.
- Reduce the potential for wheel slippage without reducing hydraulic efficiency with RCS.
- Improve fuel efficiency in certain applications with our lock-up clutch torque converter providing direct drive.

Hydraulics Productivity enabling you to move more and make more.





Positive Flow Control Hydraulics

Increase efficiency through our Positive Flow Control (PFC) Hydraulic System. PFC has concurrent pump and valve control. By optimizing pump control, hydraulic oil flow is proportionate to implement lever movement.

- Fast, productive cycles are enabled by the fully variable implement pump.
- Increase bucket feel and control through increased hydraulic response.
- Consistent performance and efficiency with lower system heat.
- Full hydraulic flow down to 1,400 engine rpm enabled by flow sharing technology.

Electro Hydraulic Controls

Operators increase productivity with our responsive implements feature.

- Operate comfortably through electronically controlled hydraulic cylinder stops.
- Handle easy-to-use soft detent controls.
- Conveniently set automatic implement kickouts from inside the cab.

Steering System

Confident loader operation starts with precise machine control enabled by the 988K's load sensing hydraulic steering system.

- Increase efficiency with our variable displacement piston pumps.
- Achieve precise positioning for easy loading in tight areas with 43 degrees of steering articulation.
- Enhance operator comfort with integrated steering and transmission control functions.

Filtration System

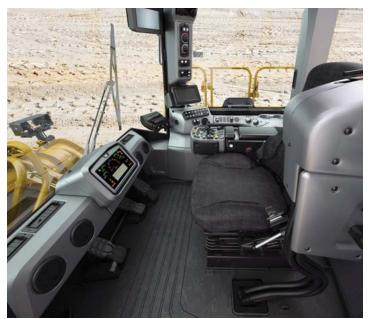
Benefit from extended performance and reliability of your hydraulic system with our advanced filtration system.

- Case drain screens.
- Hydraulic oil cooler return filter.
- Pilot filter.
- Return screens inside hydraulic tank.
- Axle oil cooler screens if equipped.











Your operators can work more efficiently and stay comfortable with our customer-inspired cab features.

Entry and Exit

Enter and exit the cab easily and safely with these newly designed, ergonomic features.

- Fold up STIC steer/armrest.
- Reduced access stairway angles.
- Standard stairway lighting.

Cat Comfort Series III Seat

Enhance comfort and reduce operator fatigue with Cat Comfort Series III seat.

- Mid back design and extra thick, contoured cushions.
- Air suspension system.
- Easy-to-reach seat levers and controls for six way adjustments.
- Seat-mounted implement pod and STIC steer that moves with the seat.
- 76 mm (3 in) wide retractable seat belt.

Control Panel

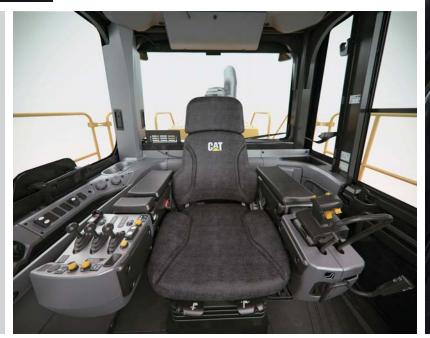
Ergonomic placement of switches and Information display keep your operators comfortable all day every day.

- Large backlit membrane switches feature LED activation indicators.
- Switches feature ISO symbols for quick function identification.
- Two position rocker switch activates the electro hydraulic park brake.

Environment

Your operator's productivity is enhanced with our clean, comfortable cab environment.

- Experience reduced vibrations from isolation cab mounts and seat air suspension.
- Maintain desired cab temperature with automatic temperature controls.
- Pressurized cab with filtered air.
- Sound level reduced to a quiet 71 dB(A).
- Convenient floor storage tray/lunch box.



Operator Station Best-in-class operator comfort and ergonomics.





The 988K electronic systems have been completely integrated to function as one machine. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

Cat Product Link™

Cat Product link allows remote monitoring of equipment to improve overall fleet management effectiveness. Events and diagnostic codes, as well as hours, fuel, idle time and other information are transmitted to a secure web based application, VisionLink™. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.

VIMS™ 3G

We have worked hard to help our customers and operators perform at their best through our Vital Information Management System (VIMS 3G).

- Easy-to-view graphical information display features a large touch screen interface.
- Intuitive operation and easy navigation with our enhanced user interface.
- Decrease service time by keeping operators informed about machine system malfunction or operation.

Payload Control System

Increase your efficiency with our Payload Control System 3.0.

- Quick payload measurement with on-the-go weighing.
- Comprehensive record accuracy of machine performance.
- Optional printer available for cab.

Cycle Timer

Impact your bottom line through improved machine performance with Cycle Timer. Each loading segment time can be analyzed to help you achieve more efficient operation.

Features:

- Production Summary
- Machine Utilization
- Productive Cycle Time
- Loader Payload Summary
- Fuel Usage Summary

Serviceability

Enabling high uptime by reducing your service time.

We can help you succeed by ensuring your 988K has design features to reduce your downtime.

- Safe and convenient service with ground level or platform access and grouped service points.
- Swing-out doors on both sides of the engine compartment provide easy access to important daily service checks.
- Ecology drains for ease of service and prevention of spilling potential environmental contaminants.
- Reduce downtime with VIMS system notifications so your operators and technicians can resolve any problems before failure.
- Ground level access to transmission control valves.



Customer Support

Your Cat dealers know how to keep your machines productive.



Legendary Cat Dealer Support

A valued partner, your Cat dealer is available whenever you need them.

- Preventive maintenance programs and guaranteed maintenance contracts.
- Best-in-class parts availability.
- Improve your efficiency with operator training.
- Genuine Cat Remanufactured parts.

Safety Making your safety our priority.



We are constantly improving our products in an effort to provide a safe work environment for the operator and those who work on your job site.

Machine Access

- Left and right hand stairs with 45 degree angle enhance safety for operators getting on and off the 988K.
- Continuous walkway with non-skid surfaces are designed into the service areas.
- Maintain three points of contact at all times through ground level or platform accessible service areas.





Visibility

- Optional heated mirrors ensure enhanced visibility for safe operation.
- Standard Cat Vision or optional Cat Detect with radar increase operator awareness around the machine.
- Optional HID or LED lights provide excellent workspace visibility.
- Optional cab mounted LED warning beacons.

Operator Environment

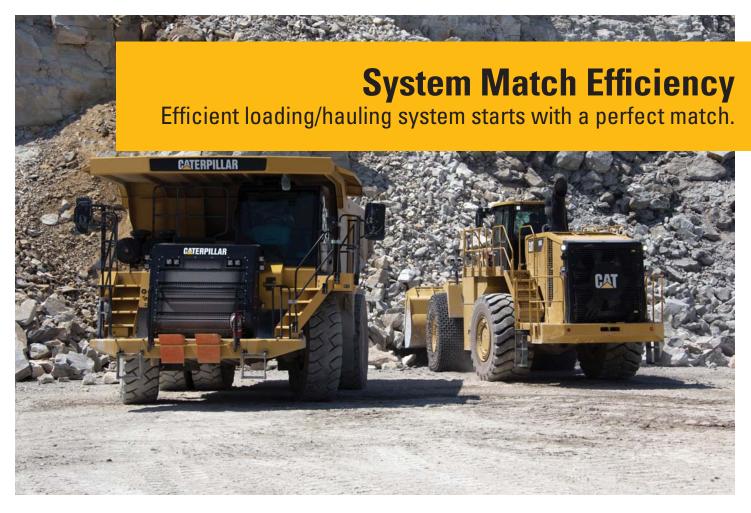
- Reduced vibrations to the operator with isolated cab mounts and seat mounted implement and steering controls.
- Low interior sound levels.
- Pressurized cab with filtered air.
- Standard 76 mm (3 in) seat belts on the operator seat.



Protecting the Environment

Environmental responsibility is designed and built into our 988K's features.

- Burns up to 20% less fuel than the previous model to minimize your carbon footprint.
- Engine Idle Shutdown can help you save fuel by avoiding unnecessary idling.
- Reduce waste to the environment with our maintenance free batteries.
- Built for multiple lives, the Cat 988 is one of the most rebuilt products. To assist with maximizing machine life, Caterpillar provides a number of sustainable options such as our Reman and Certified Rebuild programs. In these programs, reused or remanufactured components can deliver cost savings of 40 to 70 percent, which lowers operating cost while benefiting the environment.
- Caterpillar offers retrofit packages to bring new features to older machines, maximizing your resource. And, when you go through the Cat Certified Rebuild program, these retrofit kits are part of the rebuild process.



	770	772	773	775
Standard Lift	3	4		
High Lift			5	6

Efficient Combination

For full truck payloads with minimum loading time, an efficient loading/hauling system starts with a perfect match. Cat wheel loaders are matched with Cat off-highway trucks to maximize volume of material moved at the lowest operating cost per ton. The 988K equipped with the standard linkage will pass match the 770 (36 tonnes/40 tons) in 3 passes and the 772 (45 tonnes/50 tons) in 4 passes. Equipped with a high lift linkage the 988K is capable of loading a 773 (56 tonnes/61.7 tons) in 5 passes and the 775 (64 tonnes/70 tons) in 6 passes.

Bucket Ground Engaging Tools

Protect your investment.



Enhance the productivity of your loader and protect your investment in buckets with our Ground Engaging Tools (GET). Your knowledgeable Cat dealer will work with you to understand your application and needs for the GET that is best for you.

Performance Series Buckets

Performance Series Buckets feature an optimized profile maximizing material retention and minimizing dig time, translating into significant productivity and fuel efficiency improvements. All 988K buckets are manufactured with the Performance Series design.

Rock Bucket

Applications: Face loading tightly compacted pit materials.

General Purpose Bucket

Applications: Loading loose, stockpiled material.

GET Options

Multiple GET options are available to customize your 988K to your application, such as:

- Sidebar protectors.
- General duty and penetration tips.
- Standard and half arrow segments.





Data from customer machines show Cat wheel loaders are among the most fuel efficient machines in the industry.

Several features contribute to this excellent fuel efficiency:

- **Performance Series Buckets** Deliver faster fill times and better material retention, ultimately reducing cycle times while improving productivity and fuel efficiency.
- **Positive Flow Control Hydraulics** Provides only the hydraulic flow required by the implement and steering systems for improved fuel efficiency and greater rimpull.
- ACERT Engine Advanced engine controls maximizes power and efficiency.
- Economy Mode Featuring On Demand Throttle, Economy Mode optimizes power for maximum fuel savings with minimal impact on production.
- Engine Idle Shutdown Automatic engine and electrical system shutdown conserves fuel.
- Lock up Torque Converter Transfers more power to the ground and optimizes fuel efficiency in all applications.
- Advanced Productivity Electronic Control Strategy (APECS) All new APECS transmission controls provides greater momentum on grades and fuel savings by carrying that momentum through the shift points.

Machine configuration, operator technique, and job site layout can impact fuel consumption.

- Machine Configuration Select the correct work tool and tire type based on machine application. Ensure proper inflation pressures. Utilize the Economy Mode setting for maximum efficiency.
- Job Site Layout Spot loading targets in the right position. Avoid traveling more than 1.5 tire revolutions during truck loading cycles. Reduce transport distance for load and carry cycles by optimizing job site layout.
- Loading Bucket Load in first gear. Raise and tilt bucket quickly and do not use a "pumping" motion. Avoid lift lever detent and use impeller clutch.
- Loading Truck or Hopper Do not raise the work tool any higher than necessary. Keep engine rpm low and unload in controlled manner.
- Idle Set the parking brake to engage Engine Idle Management System.

988K Wheel Loader Specifications

Engine				
Engine Model	Cat C18 AC	Cat C18 ACERT		
Emissions	EU Stage I	U.S. EPA Tier 4 Final/ EU Stage IV Technology, Tier 2 Equivalent		
Rated Speed	1,700 rpm			
Peak Power Speed	1,500 rpm			
Gross – ISO 14396	432 kW	580 hp		
Gross – SAE J1995	439 kW	588 hp		
Net Power – SAE J1349	403 kW	541 hp		
Bore	145 mm	5.7 in		
Stroke	183 mm	7.2 in		
Displacement	18.1 L	1,105 in ³		
Peak Torque @ 1,200 rpm	2852 N·m	2,104 lb-ft		
Torque Rise	58%			

Operating Specifications

Operating Weight	51 062 kg	112,574 lb
Rated Payload – Standard	11.3 tonnes	12.5 tons
Rated Payload – High Lift	11.3 tonnes	12.5 tons
Bucket Capacity Range	6.4-7.6 m ³	8.3-10 yd ³
Cat Truck Match – Standard	770-772	
Cat Truck Match – High Lift	773-775	

Transmission

Transmission Type	Cat planetar	Cat planetary power shift	
Forward 1	6.5 km/h	4.0 mph	
Forward 2	11.6 km/h	7.2 mph	
Forward 3	20.4 km/h	12.7 mph	
Forward 4	34.7 km/h	21.6 mph	
Reverse 1	7.5 km/h	4.7 mph	
Reverse 2	13.3 km/h	8.3 mph	
Reverse 3	23.2 km/h	14.4 mph	
Direct Drive Forward 1	Lock-up dis	Lock-up disabled	
Direct Drive Forward 2	12.5 km/h	7.8 mph	
Direct Drive Forward 3	22.3 km/h	13.9 mph	
Direct Drive Forward 4	39.3 km/h	24.4 mph	
Direct Drive Reverse 1	8.0 km/h	5.0 mph	
Direct Drive Reverse 2	14.3 km/h	8.9 mph	
Direct Drive Reverse 3	25.5 km/h	15.8 mph	

• Travel speeds based on 35/65-R33 tire.

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	EH- Positive Flow	
	Control, Flo	w Sharing
Lift/Tilt System	Variable displacement	
	piston	
Maximum Flow at 1,400-1,860 rpm	580 L/min	153 gal/min
Relief Valve Setting – Lift/Tilt	32 000 kPa	4,641 psi
Cylinders, Double Acting:	220 mm ×	8.7 in ×
Lift, Bore and Stroke	911 mm	35.9 in
Cylinders, Double Acting:	$220 \text{ mm} \times$	8.7 in ×
Tilt, Bore and Stroke	1621 mm	63.8 in
Pilot System	Variable displacement	
	piston	
Maximum Flow	52 L/min	13.7 gal/min
Relief Valve Setting	4000 kPa	580 psi

Hydraulic Cycle Time (1,400-1,860 rpm)

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 – Steering

Steering System – Circuit	Pilot, load sensing	
Steering System – Pump	Piston, variable displacement	
Maximum Flow	270 L/mim	71.3 gal/min
Relief Valve Setting – Steering	30 000 kPa	4,351 psi
Total Steering Angle	86°	
Steering Cycle Time (high idle)	3.4 sec	
Steering Cycle Time (low idle)	5.6 sec	

Service Refill Capacities

Fuel Tank	712 L	188 gal
Cooling System	120 L	31.7 gal
Crankcase	60 L	15.9 gal
Diesel Exhaust Fluid Tank	33 L	8.7 gal
Transmission	120 L	31.7 gal
Differentials and Final Drives – Front	186 L	49.1 gal
Differentials and Final Drives – Rear	186 L	49.1 gal
Hydraulic System Factory Fill	475 L	125.5 gal
Hydraulic System (tank only)	240 L	63.4 gal

• All non-road Tier 4 Final/Stage IV, and Japan (MLIT) Step 4 diesel engines are required to use:

Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
Cat DEO-ULS[™] or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	13°

Brakes

Brakes		

SAE J1473 OCT90, ISO 3450:1992

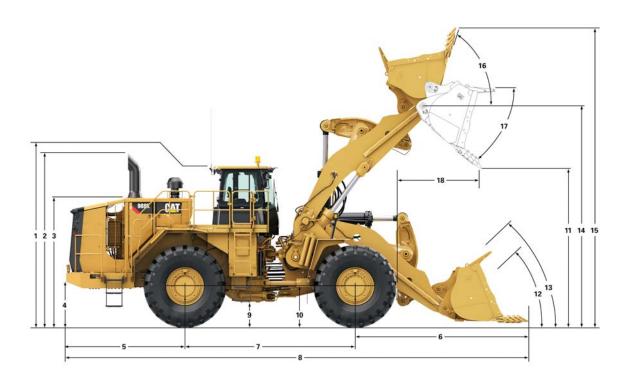
Sound Performance

	Standard	Suppression
Operator Sound Level (ISO 6396)	71 dB(A)	70 dB(A)
Machine Sound Level (ISO 6395)	111 dB(A)	109 dB(A)

988K Wheel Loader Specifications

Dimensions

All dimensions are approximate.



	Standa	Standard Lift			
1 Ground to Top of ROPS	4221 mm	13.8 ft	4221 mm	13.8 ft	
2 Ground to Top of Exhaust Stack	4214 mm	13.8 ft	4214 mm	13.8 ft	
3 Ground to Top of Hood	3334 mm	10.9 ft	3334 mm	10.9 ft	
4 Ground to Bumper Clearance	933 mm	3.1 ft	933 mm	3.1 ft	
5 Rear Axle Center Line to Bumper	3187 mm	10.5 ft	3187 mm	10.5 ft	
6 Front Axle Center Line to Bucket Tip	4467 mm	14.7 ft	4854 mm	15.9 ft	
7 Wheelbase	4550 mm	14.9 ft	4550 mm	14.9 ft	
8 Maximum Overall Length	12 204 mm	40.0 ft	12 582 mm	41.3 ft	
9 Ground to Lower Hitch Clearance	568 mm	1.9 ft	568 mm	1.9 ft	
10 Ground to Center of Front Axle	978 mm	3.2 ft	978 mm	3.2 ft	
11 Clearance at Maximum Lift	3445 mm	11.3 ft	3882 mm	12.7 ft	
12 Rack Back Angle at Ground Level	43.6 de	43.6 degrees		44.7 degrees	
13 Rack Back Angle at Carry	51.0 de	51.0 degrees		grees	
14 B-Pin Height at Maximum Lift	5479 mm	18.0 ft	5881 mm	19.3 ft	
15 Maximum Overall Height, Bucket Raised	7455 mm	24.5 ft	7849 mm	25.8 ft	
16 Rack Angle at Maximum Lift	64.5 de	64.5 degrees		grees	
17 Dump Angle at Maximum Lift	-49.8 de	egrees	-50.1 de	egrees	
18 Reach at Maximum Lift	2074 mm	6.8 ft	2130 mm	7.0 ft	

Bucket Capacity/Material Density Selection Guide

ndard Lift/High Lift					
Material Density				Bucket	Volume
kg/m³	lb/yd³	tonnes/m ³	tons/yd ³	m ³	yd ³
1468-1614	2,500-2,750	1.47-1.61	1.25-1.38	7.7	10.00
1638-1801	2,778-3,056	1.64-1.80	1.39-1.53	6.9	9.00
1766-1942	3,001-3,300	1.77-1.94	1.50-1.65	6.4	8.33

			Payload	d Target	Payload					
m ³	yd ³	Fill Factor	tonnes	tons	kg	lb	kg/m³	lb/yd³	tonnes/m ³	tons/yd ³
7.7	10.00	100%	11.30	12.50	11 300	25,000	1468	2,500	1.47	1.25
		110%	12.43	13.75	12 430	27,500	1614	2,750	1.61	1.38
6.9	9.00	100%	11.30	12.50	11 300	25,000	1638	2,778	1.64	1.39
		110%	12.43	13.75	12 430	27,500	1801	3,056	1.80	1.53
6.4	8.33	100%	11.30	12.50	11 300	25,000	1766	3,001	1.77	1.50
		110%	12.43	13.75	12 430	27,500	1942	3,301	1.94	1.65

Operating Specifications – Standard Lift

For machines equipped with 35/65 R33 XLDD1 tires – see additional tables for other tire sizes.

Bucket Type General Purpose Rac Ground Engagin Tool Adapters or BOCE K130 K1	: 339-8790, SLR	ł: 978 mm	
Cutting Edge Type Straight Straight Straight Straight Spade Spade Bucket Part Number 347-490<		HD Rock	
Cutting Edge Type Straight Straight Straight Straight Spade Spade Bucket Part Number 347-490 341 347	K130	K130	
Bucket Part Number 347-4980 347 348 5 7.2 Rea 7.2 Ref 7.3 Ref 7.3 Ref 7.3 Ref <t< th=""><th>e Spade</th><th>Spade</th></t<>	e Spade	Spade	
Struck Capacity m^1 6.0 5.5 6.5 5.5 Heaped Capacity (Rated) m^1 7.6 6.9 7.2 8.5 7.2 Heaped Capacity (Rated) m^1 7.6 6.9 yd ³ 10.0 9.0 10.0 9.0 Bucket Width mm 3897 3894 3595 380 Dump Clearance at Full Lift and 45° Discharge (with Teeth) mm 12.5 12.8 11.8 12.1 Reach at Lift and 45° Discharge (Bare) mm 1730 1653 1944 177.8 Reach at Lift and 45° Discharge (With Teeth) mm - - 11.2 11.8 Reach at Lift and 45° Discharge (With Teeth) mm - - 2127 207.7 ft - - 7.0 6.8 8		339-1370	
yd³7.87.28.57.2Heaped Capacity (Rated)m³7.66.97.66.9yd³10.09.010.09.010.09.0Bucket Widthmm3897385540204020ft12.812.611.213.213.2Dump Clearance at Full Lift and 45° Discharge (Bare)mm381038943595380ft12.511.281.211.812.5Izze ta Lift and 45° Discharge (Bare)mm11.211.2Reach at Lift and 45° Discharge (Bare)mm7.06.8Reach at Lift and 45° Discharge (with Teeth)mm7.06.8Reach at Lift and 45° Discharge (With Teeth)mm366835544237414ft12.011.713.913.313.913.0Digging Depth (Segment)mm366835544237414ft12.011.713.913.413.913.4Digging Depth (Segment)mm203198204204min888888Overall Length (Bucket Level Ground)mm17.24017.3113.913.0ft34.74974.5474.5424.824.824.2Loader Clearance Turning Radius (SAE Carry with Teeth)mm17.24017.1713.915.1ft56.656.357.151515151<	5.0	5.0	
yd ³ 10.0 9.0 10.0 9.0 Bucket Width mm 3897 3855 4020 4020 Dump Clearance at Full Lift and 45° Discharge (Bare) mm 3810 3894 3595 380 Dump Clearance at Full Lift and 45° Discharge (with Teeth) mm 11.2 11.8 12.2 Dump Clearance at Full Lift and 45° Discharge (with Teeth) mm 11.2 11.4 11.7 Reach at Lift and 45° Discharge (With Teeth) mm 2127 207 ft - 0 6.8 5.8 6.44 5.8 Reach at Lift and 45° Discharge (with Teeth) mm 0 6.8 Reach with Lift Arms Horizontal and Bucket Level (Teeth) mm 206 3454 4237 414 ft 12.0 11.7 13.9 13.4 13.2 13.4 13.2 13.4 13.4 38.0 40.3 40.0 40.3 40.3 40.0 </td <td>6.5</td> <td>6.5</td>	6.5	6.5	
Bucket Width mm 3897 3855 4020 4020 ft 12.8 12.6 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.2 13.8 13595 380 Dump Clearance at Full Lift and 45° Discharge (With Teeth) mm — — 3402 344 177. Reach at Lift and 45° Discharge (Bare) mm ft 5.7 5.4 6.4 5.8 Reach at Lift and 45° Discharge (with Teeth) mm — — 2127 207. Reach with Lift Arms Horizontal and Bucket Level (Teeth) mm 3668 3554 4237 414 Digging Depth (Segment) mm 203 198 204 204 in 8 <td>6.4</td> <td>6.4</td>	6.4	6.4	
ft12.812.613.213.2Dump Clearance at Full Lift and 45° Discharge (Bare)mm381038943595380Dump Clearance at Full Lift and 45° Discharge (with Teeth)mm $$ $$ 3402344Reach at Lift and 45° Discharge (Bare)mm $$ $$ 11.211.1Reach at Lift and 45° Discharge (with Teeth)mm $$ $$ 2127207Reach at Lift and 45° Discharge (with Teeth)mm $$ $$ 2127207Reach at Lift and 45° Discharge (with Teeth)mm $$ $$ 7.06.8Reach with Lift Arms Horizontal and Bucket Level (Teeth)mm366835544237414Digging Depth (Segment)mm203198204204in888888Overall Length (Bucket Level Ground)mm11 71411 59712 28612 2It38.438.040.340.340.340.3Overall Height with Bucket at Full Raisemm758374797549745ft24.924.524.824.524.824.5Loader Clearance Turning Radius (SAE Carry with Teeth)mm17 24017 17317 40017 33It56.656.357.156.551515151Static Tipping Load – Straight (Tire Squash)kg32 71833 11631 78532 2Static Tipping Load – Full Turn (Articulated 35°) (Ri	8.3	8.3	
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ft12.512.811.812.7Dump Clearance at Full Lift and 45° Discharge (with Teeth)mm3402344Reach at Lift and 45° Discharge (Bare)mm173016531944177ft5.75.46.45.8Reach at Lift and 45° Discharge (with Teeth)mm2127207ft7.06.8Reach at Lift Arms Horizontal and Bucket Level (Teeth)mm366835544237414ft12.011.713.913.913.9Digging Depth (Segment)mm203198204204in88888Overall Length (Bucket Level Ground)mm11 71411 59712 28612 226ft38.438.040.340.040.040.040.0Overall Height with Bucket at Full Raisemm758374797549754ft24.924.524.824.824.824.824.3Loader Clearance Turning Radius (SAE Carry with Teeth)mm171 231740017 33ft56.656.357.156.951.4833 81132 27Static Tipping Load - Straight (Rigid Tire)kg32 71833 11631 78532 27Ib72,03485 14833 81134 2677,74075.05Static Tipping Load - Full Turn (Articulated 35°) (Rigid Tire)kg27 97027 55I		13.4	
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Overall Height with Bucket at Full Raisemm ft7583 24.97479 24.57549 24.87459 24.3Loader Clearance Turning Radius (SAE Carry with Teeth)mm ft17 240 56.617 173 56.317 400 57.117 33 56.5Full Dump Angledegrees51515151Static Tipping Load - Straight (Rigid Tire)kg lb34 768 76,65035 148 74,48433 811 74,54134 22 75,55Static Tipping Load - Straight (Tire Squash)kg lb32 718 72,13133 116 73,00831 785 70,07432 27 71,08Static Tipping Load - Full Turn (Articulated 35°) (Rigid Tire)kg lb31 139 68,64931 508 69,46230 196 66,57130 6 67,5Static Tipping Load - Full Turn (Articulated 35°) (Tire Squash) lbkg 61,707 62,57627 990 62,57628 384 69,69727 078 60,692Static Tipping Load - Full Turn (Articulated 43°) (Rigid Tire) lbkg 64,76529 377 65,56629 740 62,57628 441 63,602Static Tipping Load - Full Turn (Articulated 43°) (Tire Squash) lbkg 64,76525 883 65,56626 273 62,57024 980 63,602Static Tipping Load - Full Turn (Articulated 43°) (Tire Squash) lbkg 64,76525 79,922 65,07155,071 63,602Static Tipping Load - Full Turn (Articulated 43°) (Tire Squash) lbkg 64,76525 883 65,56626 273 62,570124 980 66,05Static Tipping Load - Full Turn (Articulated 43°) (Tire Squash) lbkg 98,316 <t< td=""><td>4 12 098</td><td>12 119</td></t<>	4 12 098	12 119	
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lb 76,650 77,488 74,541 75,50 Static Tipping Load – Straight (Tire Squash) kg 32 718 33 116 31 785 32 24 Ib 72,131 73,008 70,074 71,08 70,074 71,08 Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire) kg 31 139 31 508 30 196 30 62 Static Tipping Load – Full Turn (Articulated 35°) (Tire Squash) kg 27 990 28 384 27 078 27 55 Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) kg 29 377 29 740 28 441 28 80 Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) kg 25 883 26 273 24 980 25 42 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 42 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 42 Breakout Force kN 437 468 371 392 Operating Weight kg 50 306	51	51	
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Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire) kg 31 139 31 508 30 196 30 62 Static Tipping Load – Full Turn (Articulated 35°) (Tire Squash) kg 27 990 28 384 27 078 27 53 Static Tipping Load – Full Turn (Articulated 35°) (Tire Squash) kg 29 377 29 740 28 441 28 88 Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) kg 29 377 29 740 28 441 28 88 Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) kg 25 883 26 273 24 980 25 43 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 43 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 43 Breakout Force kN 437 468 371 392 Operating Weight kg 50 306 50 065 50 873 50 55 1b 105,297 83,330 88,24 Operating Weight kg 50 306 50 065 50 873 50 55 Weight Distribution at SAE Carry (Unloa		31 350 69,115	
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Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire) kg 29 377 29 740 28 441 28 86 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 42 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 42 Breakout Force kN 437 468 371 392 Operating Weight kg 50 306 50 065 50 873 50 55 Ib 110,905 110,375 112,155 111,3 Weight Distribution at SAE Carry (Unloaded) Kg 27 450 27 034 28 538 27 9		58,749	
lb 64,765 65,566 62,701 63,63 Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash) kg 25 883 26 273 24 980 25 43 Breakout Force kN 437 468 371 392 Breakout Force kN 437 468 371 392 Operating Weight kg 50 306 50 065 50 873 50 55 Ib 110,905 110,375 112,155 111,35 Weight Distribution at SAE Carry (Unloaded) Kg 27 450 27 034 28 538 27 9	6 28 998	27 941	
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Breakout Force kN 437 468 371 392 Ibf 98,316 105,297 83,330 88,20 Operating Weight kg 50 306 50 065 50 873 50 55 Ib 110,905 110,375 112,155 111,35 Weight Distribution at SAE Carry (Unloaded) Kg 27 450 27 034 28 538 27 97		24 549	
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Operating Weight kg 50 306 50 065 50 873 50 52 Ib 110,905 110,375 112,155 111,35 Weight Distribution at SAE Carry (Unloaded) kg 27 450 27 034 28 538 27 92		402	
Ib 110,905 110,375 112,155 111,3 Weight Distribution at SAE Carry (Unloaded) kg 27 450 27 034 28 538 27 97		90,383	
Weight Distribution at SAE Carry (Unloaded) kg 27 450 27 034 28 538 27 97		51 481	
Front kg 27 450 27 034 28 538 27 9	99 111,337	113,496	
	27.000	20.476	
		29 476 64,982	
		22 005	
Rear kg 22 856 23 031 22 335 22 55 lb 50,388 50,775 49,239 49,71		48,514	
Weight Distribution at SAE Carry (Loaded)	- 19,019	10,511	
Kg 45 653 45 177 46 776 46 16	4 46 028	47 629	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$		105,003	
Rear kg 15 992 16 228 15 437 15 70		15 192	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		33,493	

Michelin XLDD1 2 Star with 6.3 bar (92 psi) pressure.

Operating Specifications – High Lift

For machines equipped with 35/65 R33 XLDD1 tires – see additional tables for other tire sizes.

	988K H	988K HL Tires: 35/65 R33 XLDD1, PN: 339-8790, SLR: 978 mm					
Bucket Type	General	Purpose		Rock		HD Rock	
Ground Engaging Tool		Adapters	or BOCE	K130	K130	K130	K130
Cutting Edge Type		Straight	Straight	Spade	Spade	Spade	Spade
Bucket Part Number		347-4990	347-4980	347-4960	347-4950	347-4970	339-1370
Struck Capacity	m ³	6.0	5.5	6.5	5.5	5.0	5.0
Situal cupatity	yd ³	7.8	7.2	8.5	7.2	6.5	6.5
Heaped Capacity (Rated)	m ³	7.6	6.9	7.6	6.9	6.4	6.4
	yd ³	10.0	9.0	10.0	9.0	8.3	8.3
Bucket Width	mm	3897	3855	4020	4020	4020	4080
	ft	12.8	12.6	13.2	13.2	13.2	13.4
Dump Clearance at Full Lift and 45° Discharge (Bare)	mm	4211	4296	3997	4074	4130	4116
	ft	13.8	14.1	13.1	13.4	13.5	13.5
Dump Clearance at Full Lift and 45° Discharge (with Teeth)	mm	-	—	3804	3882	3937	3911
	ft			12.5	12.7	12.9	12.8
Reach at Lift and 45° Discharge (Bare)	mm ft	1811 5.9	1734	2024	1947 6.4	1892 6.2	1905 6.2
$\mathbf{D}_{1} = 1 + 1 + 1 + 1 + 50 $ $\mathbf{D}_{1} = 1 + 1 + 1 + (-1) + 1 + (-1) + (-1$			5.7	6.6			
Reach at Lift and 45° Discharge (with Teeth)	mm ft			2208 7.2	2130 7.0	2075 6.8	2079 6.8
Reach with Lift Arms Horizontal and Bucket Level (Teeth)	mm	4007	3893	4576	4466	4388	4410
Reach with Lift Arms Horizontal and Bucket Level (reem)	ft	13.1	12.8	15.0	14.7	14.4	14.5
Digging Depth (Segment)	mm	219	214	220	220	220	220
	in	9	8	9	9	9	9
Overall Length (Bucket Level Ground)	mm	12 122	12 005	12 692	12 582	12 504	12 525
	ft	39.8	39.4	41.6	41.3	41.0	41.1
Overall Height with Bucket at Full Raise	mm	7985	7881	7951	7849	7775	7778
-	ft	26.2	25.9	26.1	25.8	25.5	25.5
Loader Clearance Turning Radius (SAE Carry with Teeth)	mm	17 595	17 525	17 755	17 691	17 647	17 671
	ft	57.7	57.5	58.3	58.0	57.9	58.0
Full Dump Angle	degrees	-50	-50	-50	-50	-50	-50
Static Tipping Load – Straight (Rigid Tire)	kg	32 742	33 084	31 833	32 240	32 352	31 299
	lb	72,183	72,937	70,179	71,077	71,325	69,003
Static Tipping Load – Straight (Tire Squash)	kg	30 959	31 319	30 068	30 494	30 622	29 577
Statis Timping Legal Dell Terry (Anti-slats 1250) (Disid Tim)	lb	68,253	69,046	66,289	67,228	67,510	65,206
Static Tipping Load – Full Turn (Articulated 35°) (Rigid Tire)	kg lb	29 193 64,360	29 527 65,096	28 296 62,383	28 698 63,268	28 806 63,507	27 754 61,188
Static Tipping Load – Full Turn (Articulated 35°) (Tire Squash)	kg	26 322	26 683	25 449	25 877	26 010	24 970
Static Tipping Load – Full Turn (Articulated 55.) (The Squash)	lb	58,030	58,826	56,105	57,049	57,342	55,049
Static Tipping Load – Full Turn (Articulated 43°) (Rigid Tire)	kg	27 470	27 801	26 580	26 978	27 085	26 033
State Tipping Load T an Tain (Tribeatared 15) (Trible Tite)	lb	60,562	61,290	58,598	59,477	59,712	57,394
Static Tipping Load – Full Turn (Articulated 43°) (Tire Squash)	kg	24 261	24 619	23 397	23 822	23 954	22 917
	lb	53,486	54,276	51,581	52,518	52,809	50,523
Breakout Force	kN	403	431	341	361	377	370
	lbf	90,535	97,001	76,634	81,154	84,841	83,123
Operating Weight	kg	51 648	51 408	52 216	51 873	51 845	52 824
	lb	113,865	113,335	115,116	114,359	114,298	116,456
Weight Distribution at SAE Carry (Unloaded)							
Front	kg	27 950	27 515	29 086	28 497	28 398	30 082
D	lb	61,619	60,660	64,124	62,826	62,608	66,320
Rear	kg 1b	23 698	23 893	23 129	23 375	23 446	22 742
Weight Distribution at SAE Carry (Loaded)	lb	52,246	52,675	50,991	51,534	51,690	50,137
	1.0	47 1 4 1	16 651	10 212	17 674	17 5 40	40.000
Front	kg lb	47 141 103,928	46 651 102,848	48 312 106,509	47 674 105,104	47 542 104,813	49 232 108,538
Rear		15 847	16 097	15 244	15 538	15 642	14 931
INdi	kg lb	34,937	35,487	33,607	15 558 34,256	13 642 34,485	32,918
	10	1 51,757	55,707	55,007	51,250	51,705	52,710

Standard Equipment

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

ELECTRICAL

- Alarm, back-up
- Alternator, single 150 amp
- Batteries, dry
- Converter, 10/15 amp, 24V to 12V
- Lighting system (halogen, work lights, access and service platform lighting)
- Starting and charging system, 24V
- Starter emergency start receptacle
- Starter lockout in bumper
- Transmission lockout in bumper

OPERATOR ENVIRONMENT

- Graphical Information Display, displays real time operating information, performs calibrations and customizes operator settings
- Air conditioner
- Cat Detect Vision, rear vision camera system
- Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port
- Controls, lift and tilt function
- Heater, defroster
- Horn, electric
- Instrumentation, gauges
- Coolant temperature
- Engine hour meter
- Hydraulic oil temperature
- Power train oil temperature
- Light, cab, dome
- Lunchbox, beverage holders
- Mirrors, rearview (externally mounted)
- Rimpull Control System
- Seat, Cat Comfort (cloth), air suspension, six-way adjustable
- Seat belt, retractable, 76 mm (3 in) wide
- STIC Control System
- UV glass
- Transmission gear indicator
- Vital Information Management System (VIMS) with Graphical Information Display: External Data Port, Customizable Operator Profiles, Cycle Timer, Integrated Payload Control System
- Wet-Arm wipers/washers (front and rear)
- Intermittent front and rear wipers
- Lights, directional

POWER TRAIN

- · Brakes, oil-cooled, multi-disc, service/secondary
- Case drain screens
- Crankcase guard
- Electro hydraulic parking brake
- Engine, C18 MEUI diesel, turbocharged/aftercooled
- Ground level engine shutoff
- Turbine precleaner, engine air intake
- Radiator, Next Generation Modular (NGMR)
- Starting aid, ether, automatic
- Throttle lock, electronic
- Torque converter, Impeller Clutch (ICTC) with Lock up clutch (LUC), Rimpull Control System
- Transmission, planetary powershift, 4F/3R electronic control

OTHER

- Automatic bucket lift kickout/positioner
- · Base machine price includes a rim allowance
- Hydraulically driven demand fan
- Couplings, Cat O-ring face seals
- Doors, service access (locking)
- · Ecology drains for engine, radiator, hydraulic tank
- Fuel tank, 731 L (188 gal)
- Hitch, drawbar with pin
- Hoses, Cat XT™
- Hydraulic, steering and brake filtration/screening system
- Cat Clean Emission Module
- Oil sampling valves
- Premixed 50% concentration of extended life coolant with freeze protection to -34° C (-29° F)
- Rear access to cab and service platform
- · Steering, load sensing
- Toe kicks
- Vandalism protection caplocks

Optional Equipment

With approximate changes in operating weights. Optional equipment may vary. Consult your Cat dealer for specifics.

POWER TRAIN

- -50° C (-58° F) antifreeze
- Engine oil change system, high speed, Wiggins
- Engine block heater 120V or 240V
- High ambient cooling software
- Payload Control System (PCS)

OPERATOR ENVIRONMENT

- Cab precleaner
- AM/FM/CD/MP3 radio
- Satellite Sirius radio with bluetooth
- LED warning strobe
- CB radio ready
- Window pull down visor

MISCELLANEOUS ATTACHMENTS

- Front and rear roading fenders
- Fast fill fuel system (Shaw-Aero)

Mandatory Attachments

Select one from each group. Mandatory and optional equipment may vary. Consult your Cat dealer for specifics.

LINKAGE

- Standard with two valves
- Standard with three valves
- High Lift with two valves
- High Lift with three valves
- Autolube
- · Manual grease pins

ELECTRICAL

- No Product Link
- Product Link (Satellite)
- Product Link (Cellular)

STEERING

- Standard steering
- Secondary steering

POWER TRAIN

- Axle oil cooler
- Standard axles
- Standard fuel lines
- Heated fuel lines
- Standard axle
- No spin axle
- Extreme temperature axle
- Standard engine air turbine precleaner
- Dual stage precleaner
- No engine brake
- Engine brake

LIGHTING

- Standard lighting
- HID lighting
- LED lighting

OPERATOR ENVIRONMENT

- No suppression arrangement
- Sound suppression
- Standard seat
- Heated seat
- Standard seat belt
- Seat belt minder
- Standard cab glass
- Rubber mounted cab glass
- Fixed glass door, standard
- Sliding glass door
- Standard cab air cleaner
- RESPA cab air cleaner
- Standard mirror
- Heated mirror
- Vision Display
- Cat Detect (Object Detection)

HYDRAULICS

- Ride control
- No ride control
- Standard hydraulic oil
- Fire resistant (EcoSafe) hydrualic oil
- Cold weather hydraulic oil

FUEL SYSTEM

- Conventional fuel arrangement
- Cold weather starting

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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