# 992K Wheel Loader





Engine		
Engine Model	Cat® C32 A	CERT™
Emissions	U.S. EPA Tio	er 4 Final
Gross Power – SAE J1995	671 kW	900 hp
Net Power – SAE J1349	607 kW	814 hp
Gross Power – ISO 14396	659 kW	884 hp
Emissions	Tier 2 Equiv	alent
Gross Power – SAE J1995	676 kW	907 hp
Net Power – SAE J1349	607 kW	814 hp
Gross Power – ISO 14396	659 kW	884 hp

Buckets		
Bucket Capacities	10.7-12.3 m <sup>3</sup>	14-16 yd <sup>3</sup>
Operating Specifications		
Rated Payload – Standard (face material)	21.7 tonnes	24 tons
Rated Payload – High Lift (face material)	19.1 tonnes	21 tons
Operating Weight – Standard	99 831 kg	220,089 lb
Operating Weight – High Lift	100 628 kg	221,847 lb

# **Efficient** and **Reliable**

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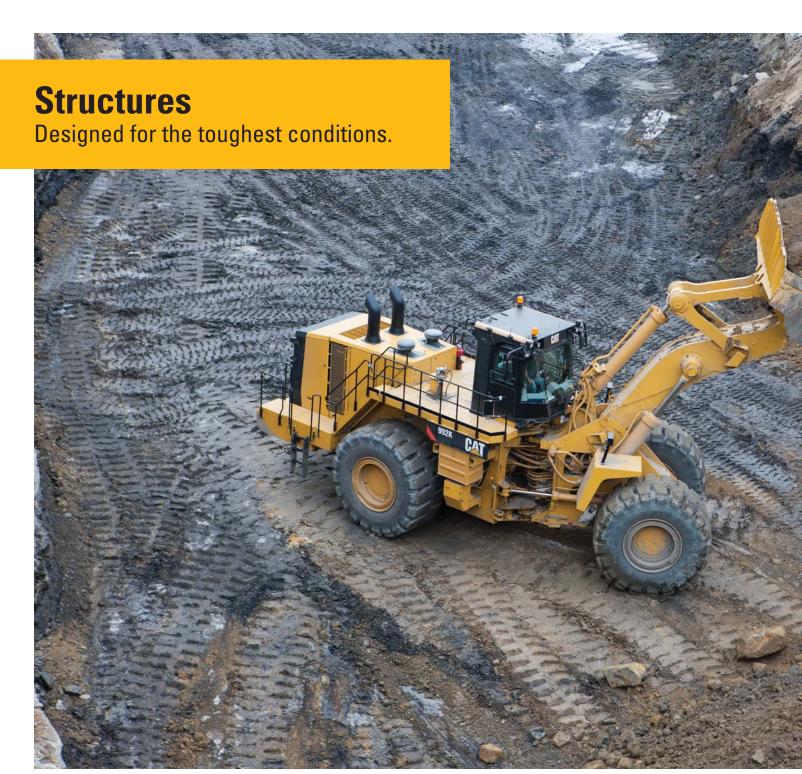




Caterpillar first introduced the 992 in 1968. This large wheel loader has been a global leader ever since, building a reputation as a face loader that's both safe to operate, productive and durable. With the introduction of the K Series, we've enhanced the operator's experience and the safety of those working on and around the machine.

With both standard and high lift configurations, this machine will pass match with fleets of 775, 777, and 785 trucks.

If your operations revolve around the 992 as a loading tool, you'll find everything that's important to your business in the 992K; safety, productivity, cost control and comfort for your people.





# **Lift Arm**

Your key to maximum uptime and productivity is our field-proven lift arm.

- Excellent visibility to the bucket edges and work area.
- Enhanced strength in key pin areas through the use of one piece castings.
- Stress relieved lift arm increases durability.



# **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 to maximize life of mounted components.
- Frames utilize 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.



# **Front Linkage**

To ensure long life and reliability, sleeve bearing pins in the linkage are more predictable in their wear and limit daily greasing.

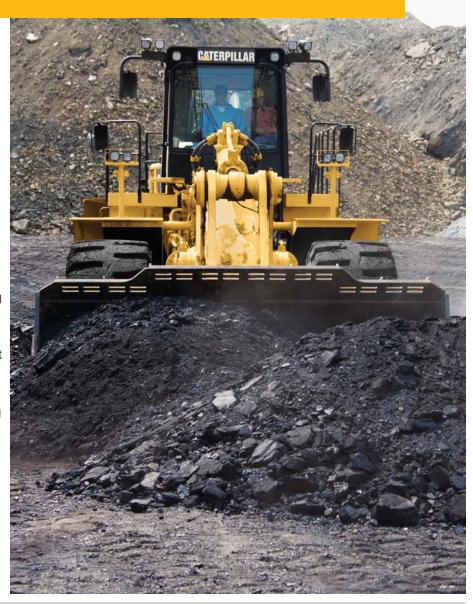
# **Power Train**

Move material more efficiently with improved power and control.

# 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 lock-up clutch torque converter providing direct drive.



# **Economy Mode**



Enabling maximum productivity and efficiency, all day every day.

The 992K 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 992K 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.

# 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.

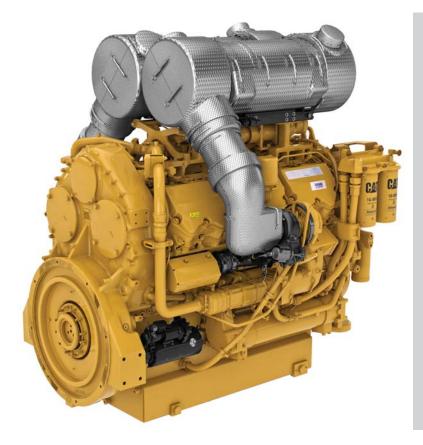
# **Cat Planetary Powershift Transmission**

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

- Consistent, smooth shifting and efficiency through integrated electronic controls.
- Long life and reliability through heat treated gears and metallurgy.
- Three forward and three reverse speeds to match your application.







# **Cat C32 ACERT Engine**

The 992K retains the durability and reliability of the proven Cat C32 diesel with ACERT Technology.

- Like all Cat machines, this engine has been completely integrated into all machine systems resulting in power curves, fuel maps and ratings that are unique to this machine and applications.
- The solid foundation of this engine starts from our legendary foundries delivering the highest quality engine block.
- The mechanically actuated, electronically controlled unit injection (MEUI<sup>TM</sup>) ensures that fuel is metered out in optimal quantities for both power and efficiency.

# 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 enabled by four electronically controlled, fully variable piston pumps.
- Increased bucket feel and control.
- Consistent performance and efficiency with lower system heat.

# **Electro Hydraulic Controls**

Increase operator productivity with these implement features.

- 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 992K's load sensing hydraulic steering system.

- Efficient variable displacement piston pumps.
- Achieve precise positioning for easy loading in tight areas.
- 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.

- Lift/tilt case drain filters.
- Lift/tilt high pressure screens.
- Steering case drain filters.
- Steering high pressure screens.
- Hydraulic case drain filters.
- Power train filters for transmission, torque converter, and pump drives.
- Front and rear brake oil screens.

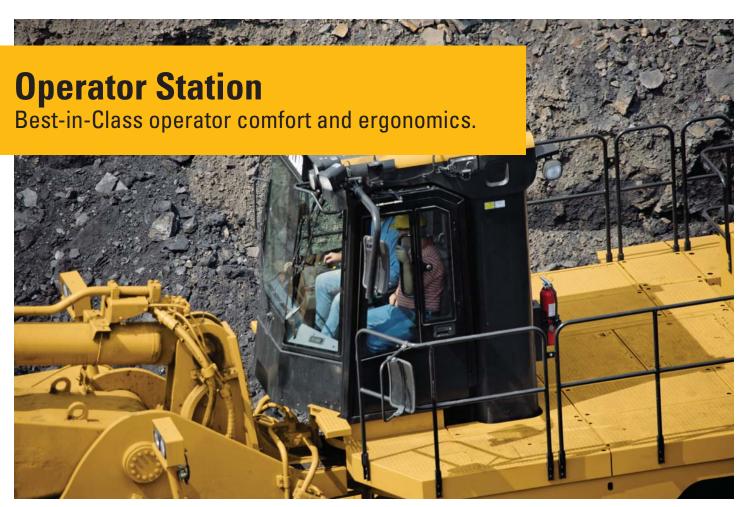
# **Cooling System**

- A standard demand fan to improve efficiency and cooling performance.
- Optional high ambient package for hot climate conditions.













# **Environment**

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

- Experience reduced vibrations from viscous cab mounts and air seat suspension.
- Maintain desired cab temperature with automatic temperature controls.
- Pressurized cab with pressure indicator.
- Low operator sound levels.
- Available heated and ventilated seats featuring leather covered seat bolster and headrest.



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

# **Deluxe Operator Seat**

Enhance comfort and reduce operator fatigue.

- Available heated and ventilated seat featuring leather seat bolster surfaces.
- High 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.
- Fold up STIC steer/armrest.

# **Trainer Seat**

Train other operators in comfort with our standard training seat.

- 76 mm (3 in) wide, retractable seat belt.
- Fold-down design with molded drink tray and storage.



# **Technology Solutions**

Greater productivity through integrated electronic systems.

Integrated electronics provide flexible levels of information to both the site and the operator. This integration creates a smart machine and more informed operator, maximizing the productivity of both.

# **Information Display**

We have worked hard to help our customers and operators perform at their best through our newly upgraded touch screen information display.

- Intuitive operation and easy navigation with our enhanced user interface.
- Decrease service time by keeping operators informed about machine systems.
- Quick on-the-go weighing with the Cat Production Measurement (CPM).

# Cat Product Link™

Take the guesswork out of asset management with Product Link remote monitoring.

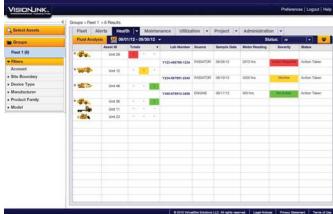
- Remote access to information through the easy-to-use VisionLink® interface.
- Maximize uptime by staying informed on machine systems and diagnostic codes.
- Track machine with utilization, fuel usage, and payload summaries.
- Stay up to date on machine location, service meter hours, and reporting status.

# Vital Information Management System (VIMS™)

Connect directly to the machine for access to a wide range of sensor information and enhanced machine data.

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









# Cat® MineStar System

Work more productively.



Cat MineStar System is the industry's broadest suite of integrated mine operations and mobile equipment management technologies, configurable to suite your operation's needs. Its capability sets – Fleet, Terrain, Detect, Health and Command – contain a range of technologies that let you manage everything from fleet assignment and condition monitoring to remote and autonomous control. The 992K can take advantage of many of these advanced technologies, some of which are standard out of the factory.

# **Fleet**

Fleet provides comprehensive, real-time machine tracking, assignment and productivity management, giving you a comprehensive overview of all operations from anywhere in the world.

# **Terrain for Loading**

Terrain with your 992K enables high-precision management of loading operations through the use of guidance technology. It increases 992K's productivity and provides you real-time feedback for improved efficiency.

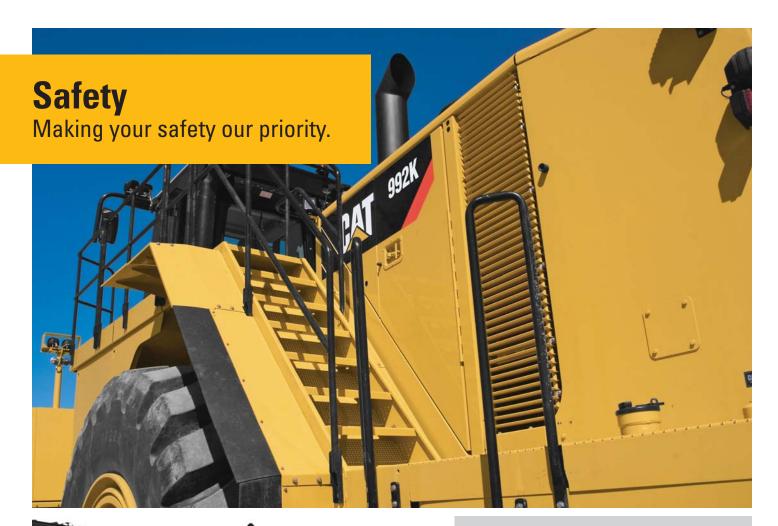


Detect helps increase operator awareness, enhancing safety at your operation. It includes a range of capabilities designed to assist the operator with areas of limited visibility around fixed and mobile equipment.

# Health

Health delivers critical event-based machine condition and operating data for your entire fleet. It includes comprehensive equipment health and asset monitoring capabilities, with a wide range of diagnostic, analytic and reporting tools.







# **Powered Access System**

The Cat powered access system allows easier access to the primary stairs by improving access and egress to and from the rear platform.

- Safe, ergonomic access system.
- All operators have adequate space when using the wide stairway.
- Operators maintain three-point contact when using full handrails on each side.
- Raise and lower stairs from cab level or ground.

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**

- Wider stairs with 45 degree angles provide easy access for operators getting on and off the 992K.
- Wide walkways with non-skid surfaces and integrated lock out/tag out points are designed into the service areas.
- Windshield cleaning platforms provide safe and convenient access for the operator.
- Maintain three points of contact at all times through ground level or platform accessible service areas.
- Emergency egress ladder provides a third exit, if needed.

# **Visibility**

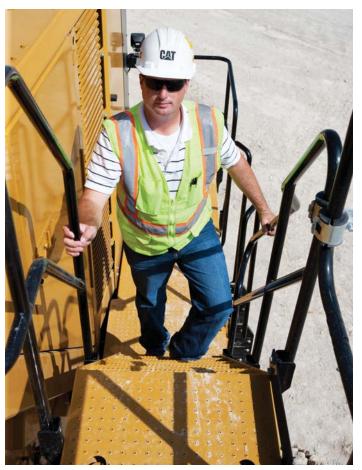
- Cat Detect, which includes Cat Vision plus an optional object detection radar system, enhances operator awareness around the machine.
- LED warning lights, programmable for site-specific signaling.
- A mirror system improves operator line of sight to the side and rear of the machine. Heated option also available.
- Pull down window shade.

# **Operator Environment**

- Viscous cab mounts and seat air suspension reduce vibrations from the machine to the operator.
- · Low interior sound levels.
- Standard 76 mm (3 in) seat belt with minder.
- Optional 4 point harness with minder.
- Operator training seat with standard 76 mm (3 in) seat belt facilitates safe new operator training.

# Fire Suppression Ready System

- Provides required provisions to mount a fire suppression system.
- Allows the customer to install a fire suppression system quickly without compromising other components.

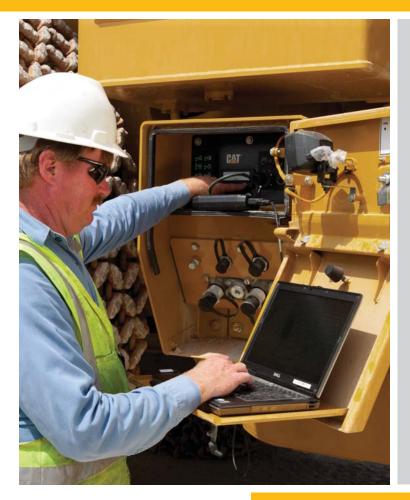






# **Serviceability**

Enabling high uptime by reducing your service time.



# We help you succeed by ensuring your 992K has design features to increase uptime.

- The standard, comprehensive filtration system maintains clean fluids to enable high component reliability.
- 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 spills.
- Centralized remote pressure taps.
- Reduce downtime with VIMS system notifications so your operators and technicians can resolve any problems before failure.
- Powered fresh air filter extends cab filter life.

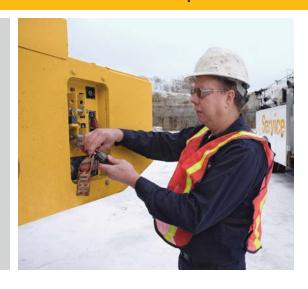
# **Customer Support**

Your Cat dealers know how to keep your mining machines productive.

# **Superior 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.





# **Protecting the Environment**

Environmental responsibility is designed and built into our 992K's features.

- Increased fuel efficiency to minimize your carbon footprint.
- Engine Idle Shutdown can help you save fuel by avoiding unnecessary idling.
- 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. When you go through the Cat Certified Rebuild program, these retrofit kits are part of the rebuild process.
- Fluids are better controlled through use of Cat anti-drain filter housings and component ecology drains.

# **Buckets and Ground Engaging Tools**

It's all about performance.

# **Increase Productivity and Fuel Efficiency**

Cat buckets are designed for superior performance in a variety of materials. They are engineered to dig into piles quickly and load efficiently. Optimized fill factors enable you to get the job done and move on to other tasks. Fast load cycles and fewer trips mean less wear and tear on your machine and keep you working.

The buckets below are part of the 992K bucket line. They come in different capacities and widths to fit your loading and carrying needs.



# 1 - Rock Buckets

Designed for use in bank or face loading of limestone and other unprocessed rock. Application also includes truck and hopper loading for a wide range of quarry materials. GET includes spade nose cutting edge with adapters, half arrow segments, floor liner, bottom wear plates, wings, and side bar protectors.

# 2 – Heavy Duty Rock Buckets

Designed for use in applications like face loading tightly compacted pit materials or handling materials of moderate abrasion and high impacts. GET are similar to the rock bucket with the addition of half radius liners and bolt-on bottom edge wear plates. Base edge end protection, ski plates, additional side wear plates, and an extra set of side bar protectors are also included.

### Iron Ore Buckets

Designed for use in extremely aggressive applications like face loading. Built for high abrasion and moderate impact. GET are similar to heavy duty rock buckets with the addition of flush mount adapter covers, edge segment top covers and side heel shrouds. Iron ore buckets are smaller in bucket capacity to accommodate for higher material density applications.

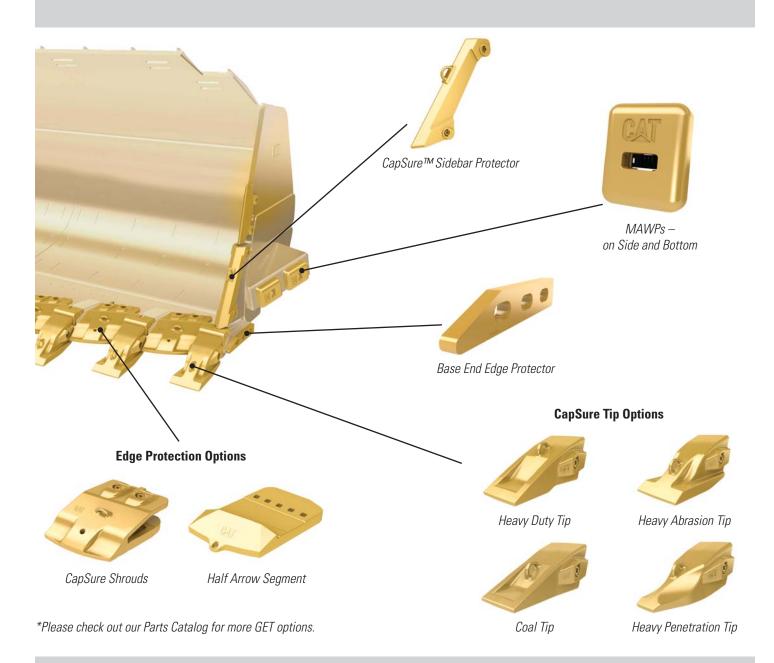
# 3 – Coal Buckets

Designed for use in applications with light density and non-abrasive materials. GET includes a straight base edge with a bolt-on cutting edge system.



# Cat Advansys™ Ground Engaging Tools

Protect expensive components. Reduce your operating costs. Get the most out of your machine's performance. Choose from a variety of performance-built Advansys GET like these to meet your application requirements.



# **CapSure™ Retention Technology**

Simplify GET component replacement with hammerless CapSure retention for fast, easy and safe installation. CapSure tips, shrouds and sidebar protectors are easily locked and unlocked with a 180 degree turn of a  $\frac{3}{4}$  inch ratchet.

# **System Match Efficiency**

Efficient loading/hauling system starts with a perfect match.



Cat Truck Pass Match	775	777	785
Standard Lift	3	4	
High Lift		5	7

# **Application Match**

The standard 992K is sized to load the 68 tonnes (70 ton) 775 in three passes, and the 91 tonnes (100 ton) 777 in four passes. The 992K high light configuration loads the 777 in five passes, and the 145 tonnes (160 ton) 785 in seven passes.

# **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 mining trucks to maximize volume of material moved at the lowest operating cost per ton.

# **Bucket Selection**

Selection of the right bucket depends on penetration requirements, material densities, abrasion, and the loading target. Bucket sizes are matched to truck bed capacities and material densities for optimum loading efficiency and greater productivity.

Engine		
Engine Model	Cat C32 A	CERT
Emissions	Tier 4 Fina	1
Rated Speed	1,750 rpm	
Gross Power – SAE J1995	671 kW	900 hp
Gross Power – ISO 14396	659 kW	884 hp
Net Power – SAE J1995	607 kW	814 hp
Peak Torque @ 1,200 rpm - SAE J1995	4,765 rpm	
Emissions	Tier 2 Equi	ivalent
Rated Speed	1,750 rpm	
Gross Power – SAE J1995	676 kW	907 hp
Gross Power – ISO 14396	659 kW	884 hp
Net Power – SAE J1995	607 kW	814 hp
Peak Torque @ 1,200 rpm - SAE J1995	4,796 rpm	
Bore	145 mm	5.7 in
Stroke	162 mm	6.4 in
Displacement	32.1 L	1963.5 in <sup>3</sup>
Torque Rise	30%	

# **Tier 4 Final**

- These ratings apply at 1,750 rpm when tested under the specified standard conditions.
- Rating for net power advertised is based on power available when the engine is equipped with alternator, air cleaner, muffler, and on-demand hydraulic fan drive at maximum fan speed.

# **Tier 2 Equivalent**

- These ratings apply at 1,750 rpm when tested under the specified standard conditions.
- Rating for net power advertised is based on power available when the engine is equipped with alternator, air cleaner, muffler, and on-demand hydraulic fan drive at maximum fan speed.

<b>Operating Specifications</b>		
Operating Weight	99 831 kg 220,0	89 lb
Rated Payload		
Standard (face material)	21.7 tonnes 24 to:	ns
High Lift (face material)	19.1 tonnes 21 to:	ns
Bucket Capacity Range	10.7-12.3 m³ 14-16	yd³
Transmission		
Transmission Type	Cat Planetary Power	Shift
Forward 1	6.9 km/h 4.3 mp	h
Forward 2	11.9 km/h 7.4 mp	h
Forward 3	20.3 km/h 12.6 m	ph
Direct Drive – Forward 1	Disabled	

1.9 km/h	Power Shift 4.3 mph 7.4 mph
11.9 km/h	
	7.4 mph
20 2 1 /1	
20.3 km/h	12.6 mph
Disabled	
12.9 km/h	8.0 mph
22.8 km/h	14.2 mph
7.6 km/h	4.7 mph
13.1 km/h	8.1 mph
22.2 km/h	13.8 mph
7.9 km/h	4.9 mph
14.2 km/h	8.8 mph
24.8 km/h	15.4 mph
7	2.9 km/h 2.8 km/h 6 km/h 3.1 km/h 2.2 km/h 7.9 km/h 4.2 km/h

Hydraulic System – Lift/Tilt		
Lift/Tilt System – Circuit	Positive Flow	w Control
Lift/Tilt System – Pumps	Variable Dis Piston	placement
Maximum Flow at 1,850 rpm	960 L/min	254 gal/min
Relief Valve Setting – Lift/Tilt	31 000 kPa	4,500 psi
Lift Cylinder – Bore	279.4 mm	11 in
Lift Cylinder – Stroke	1148 mm	45.2 in
Tilt Cylinder – Bore	266.7 mm	10.5 in
Tilt Cylinder – Stroke	2055 mm	80.9 in

Hydraulic Cycle Time		
Rack Back	4.4 seconds	
Raise	9.4 seconds	
Dump	1.8 seconds	
Lower Float Down	3.7 seconds	
Total Hydraulic Cycle Time	19.3 seconds	
Service Refill Capacities		
Fuel Tank	1562 L 413 gal	

1562 L	413 gal
290 L	77 gal
120 L	32 gal
169 L	45 gal
360 L	95 gal
345 L	91 gal
326 L	86 gal
159 L	42 gal
2.72 kg	6.00 lb
0.268 L	0.071 gal
	290 L 120 L 169 L 360 L 345 L 326 L 159 L 2.72 kg

Axles	
Front	Fixed
Rear	Oscillating
Oscillation Angle	10° ±, 8° ± with Stops

Brakes	
Brakes	Meet ISO 3450:2011

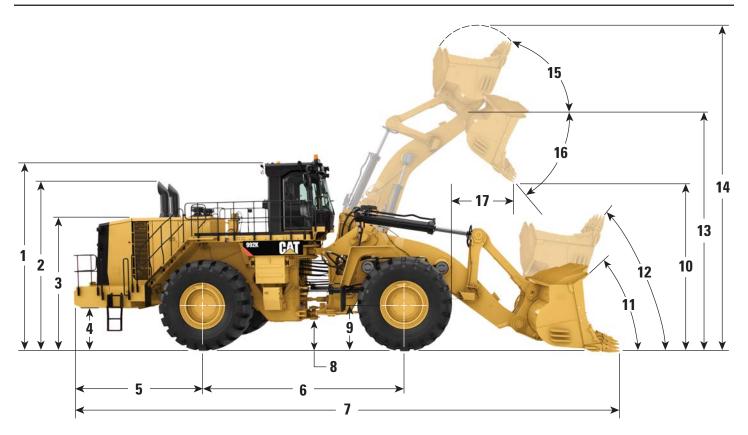
# **Sound Performance**

- The operator sound pressure level is 70 dB(A), measured according to the test procedures and conditions specified in ISO 6396:2008 for the standard machine configuration. 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.
- The machine sound power level is 116 dB(A), measured according to the test procedures and conditions specified in ISO 6395:2008 for the standard machine configuration. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- The machine sound power level is 113 dB(A), measured according to the test procedures and conditions specified in ISO 6395:2008 for the sound suppressed machine configuration. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.

Hydraulic System – Steer	ring	
Steering System – Circuit	Pilot, Load S	ensing
Steering System – Pump	Piston, Varial	ole Displacement
Maximum Flow @ 1,350 rpm	360 L/min	95 gal/min
Steering Cut Off Pressure	31 000 kPa	4,500 psi
Total Steering Angle	86°	
Steering Cycle Time (low idle)	6.4 seconds	
Steering Cycle Time (high idle)	4.4 seconds	

# **Dimensions**

All dimensions are approximate.



	Standar	Standard Lift		Lift
Ground to Top of ROPS	5678 mm	18'7"	5678 mm	18'7"
Ground to Top of Exhaust Stacks	5248 mm	17'2"	5248 mm	17'2"
Ground to Top of Hood	4043 mm	13'4"	4043 mm	13'4"
Ground to Bumper Clearance	1176 mm	3'11"	1176 mm	3'11"
Rear Axle Center Line to Bumper	4195 mm	13'8"	4195 mm	13'8"
Wheel Base	5890 mm	19'4"	5890 mm	19'4"
Maximum Overall Length	15 736 mm	52'0"	16 095 mm	52'8"
Ground to Lower Hitch Clearance	682 mm	2'2"	682 mm	2'2"
Ground to Center of Axles	1352 mm	4'4"	1352 mm	4'4"
Clearance at 50 degrees (Standard) 45 degrees (High Lift) Dump (tooth tip)	4480 mm	14'8"	4574 mm	15'1"
Rack Back Angle at Ground Level	43.4 de	grees	42.8 de	grees
Rack Back Angle at Carry	52.7 de	grees	52.5 de	grees
B-Pin Height at Maximum Lift	6927 mm	22'8"	6927 mm	22'8"
Maximum Overall Height – bucket raised	9313 mm	30'6"	9313 mm	30'6"
Rack Back Angle at Maximum Lift	65 deg	grees	65 deg	grees
Dump Angle at Maximum Lift	50 deg	grees	50 deg	grees
Reach at Maximum Lift	2118 mm	6'11"	2092 mm	6'9"
ad Width	3302 mm	10'8"	3302 mm	10'8"
	Ground to Top of Exhaust Stacks Ground to Top of Hood Ground to Bumper Clearance Rear Axle Center Line to Bumper Wheel Base Maximum Overall Length Ground to Lower Hitch Clearance Ground to Center of Axles Clearance at 50 degrees (Standard) 45 degrees (High Lift) Dump (tooth tip) Rack Back Angle at Ground Level Rack Back Angle at Carry B-Pin Height at Maximum Lift Maximum Overall Height – bucket raised Rack Back Angle at Maximum Lift Dump Angle at Maximum Lift Reach at Maximum Lift	Ground to Top of ROPS Ground to Top of Exhaust Stacks Ground to Top of Hood Ground to Top of Hood Ground to Bumper Clearance Rear Axle Center Line to Bumper Wheel Base Maximum Overall Length Ground to Lower Hitch Clearance Ground to Center of Axles Clearance at 50 degrees (Standard) 45 degrees (High Lift) Dump (tooth tip) Rack Back Angle at Ground Level 43.4 de Rack Back Angle at Carry 52.7 de B-Pin Height at Maximum Lift 6927 mm Maximum Overall Height – bucket raised Rack Back Angle at Maximum Lift 65 deg Dump Angle at Maximum Lift 50 deg Reach at Maximum Lift 50 deg Reach at Maximum Lift 50 deg Reach at Maximum Lift 50 deg	Ground to Top of ROPS         5678 mm         18'7"           Ground to Top of Exhaust Stacks         5248 mm         17'2"           Ground to Top of Hood         4043 mm         13'4"           Ground to Bumper Clearance         1176 mm         3'11"           Rear Axle Center Line to Bumper         4195 mm         13'8"           Wheel Base         5890 mm         19'4"           Maximum Overall Length         15 736 mm         52'0"           Ground to Lower Hitch Clearance         682 mm         2'2"           Ground to Center of Axles         1352 mm         4'4"           Clearance at 50 degrees (Standard)         4480 mm         14'8"           45 degrees (High Lift) Dump (tooth tip)           Rack Back Angle at Ground Level         43.4 degrees           Rack Back Angle at Carry         52.7 degrees           B-Pin Height at Maximum Lift         6927 mm         22'8"           Maximum Overall Height – bucket raised         9313 mm         30'6"           Rack Back Angle at Maximum Lift         65 degrees           Dump Angle at Maximum Lift         50 degrees           Reach at Maximum Lift         50 degrees	Ground to Top of ROPS         5678 mm         18'7"         5678 mm           Ground to Top of Exhaust Stacks         5248 mm         17'2"         5248 mm           Ground to Top of Hood         4043 mm         13'4"         4043 mm           Ground to Bumper Clearance         1176 mm         3'11"         1176 mm           Rear Axle Center Line to Bumper         4195 mm         13'8"         4195 mm           Wheel Base         5890 mm         19'4"         5890 mm           Maximum Overall Length         15 736 mm         52'0"         16 095 mm           Ground to Lower Hitch Clearance         682 mm         2'2"         682 mm           Ground to Center of Axles         1352 mm         4'4"         1352 mm           Clearance at 50 degrees (Standard)         4480 mm         14'8"         4574 mm           45 degrees (High Lift) Dump (tooth tip)         43.4 degrees         42.8 degrees           Rack Back Angle at Ground Level         43.4 degrees         52.5 degrees           B-Pin Height at Maximum Lift         6927 mm         22'8"         6927 mm           Maximum Overall Height – bucket raised         9313 mm         30'6"         9313 mm           Rack Back Angle at Maximum Lift         65 degrees         50 degrees         50 degrees

# **Bucket Capacity/Material Density: Face**

	Bucket	Capacity	GET	Standard Lift N	Naterial Density	High Lift Material Density		
<b>Bucket Type</b>	m³	yd³	No. of Tips	kg/m³	lb/yd³	kg/m³	lb/yd³	
Rock	10.7	14.0	8	2035	3,430	1780	3,000	
	11.5	15.0	8	1893	3,191	1657	2,792	
	11.5	15.0	8	1893	3,191	1657	2,792	
	12.2	16.0	8	1785	3,008	1562	2,632	
Coal	19.1	25.0	BOCE	1100	1,850	950	1,600	
Iron Ore	9.0	11.8	8	2419	4,078	2117	3,568	

Custom buckets are available upon request. Please work with your dealer for more information.

# **Operating Specifications – Standard Lift (Tier 4 Final)**

For machines equipped with 45/58-R45 L-5 58 ply tires (SLR: 1308 mm/4'3").

Bucket Type					Rock				Coal
Ground Engaging Tools				Te	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg	21 772	21 772	21 772	21 772	21 772	21 772	21 772	_
	1b	48,000	48,000	48,000	48,000	48,000	48,000	48,000	
Rated Capacity	m <sup>3</sup>	10.7	11.5	12.3	10.7	11.5	10.7	10.7	
	$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Struck Capacity – ISO	$m^3$	8.9	9.5	10.2	8.9	9.5	8.9	8.9	_
	$yd^3$	11.6	12.4	13.3	11.6	12.4	11.6	11.6	_
Heaped Capacity – ISO	m <sup>3</sup>	10.7	11.5	12.3	10.7	11.5	10.7	10.7	_
	$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Bucket Width – Overall	mm	4824	4884	4824	4884	4824	4900	4900	6090
	ft	15'10"	16'0"	15'10"	16'0"	15'10"	16'1"	16'1"	20'0"
Clearance at 50° Dump (Edge)	mm	4742	4673	4625	4742	4675	4832	4832	4772
	ft	15'7"	15'4"	15'2"	15'7"	15'4"	15'10"	15'10"	15'8"
Clearance at 50° Dump (Tooth Tip)	mm	4480	4417	4360	4486	4413	4574	4574	4772
	ft	14'8"	14'6"	14'4"	14'9"	14'6"	15'0"	15'0"	15'8"
Reach at 50° Dump (Edge)	mm	1906	1957	1998	1906	1960	1858	1858	1925
	ft	6'3"	6'5"	6'7"	6'3"	6'5"	6'1"	6'1"	6'4"
Reach at 50° Dump (Tooth Tip)	mm	2118	2165	2209	2114	2171	2092	2092	1925
	ft	6'11"	7'1"	7'3"	6'11"	7'1"	6'10"	6'10"	6'4"
Clearance at 45° Dump (Edge)	mm	4849	4785	4741	4849	4788	4935	4935	4881
	ft	15'11"	15'8"	15'7"	15'11"	15'9"	16'2"	16'2"	16'0"
Clearance at 45° Dump (Tooth Tip)	mm	4607	4548	4495	4612	4545	4699	4699	4881
	ft	15'1"	14'11"	14'9"	15'2"	14'11"	15'5"	15'5"	16'0"
Reach at 45° Dump (Edge)	mm	2092	2149	2194	2092	2151	2036	2036	2109
	ft	6'10"	7'1"	7'2"	6'10"	7'1"	6'8"	6'8"	6'11"
Reach at 45° Dump (Tooth Tip)	mm	2326	2378	2427	2322	2385	2292	2292	2109
	ft	7'8"	7'10"	8'0"	7'7"	7'10"	7'6"	7'6"	6'11"
Bucket Pin at Maximum Lift	mm	6927	6927	6927	6927	6927	6927	6927	6927
	ft	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"
Horizontal Arm and Level Bucket Reach	mm	5114	5193	5265	5108	5200	5025	5025	4767
	ft	16'9"	17'0"	17'3"	16'9"	17'1"	16'6"	16'6"	15'8"
Digging Depth (Segment)	mm	196	201	201	196	198	175	175	162
	in	8"	8"	8"	8"	8"	7"	7''	6"
Overall Length – Bucket Level Ground	mm	15 736	15 818	15 890	15 729	15 823	15 632	15 632	15 366
(Tooth)	ft	51'8"	51'11"	52'2"	51'7"	51'11"	51'3"	51'3"	50'5"
Overall Height	mm	9313	9313	9492	9313	9313	9392	9313	9489
	ft	30'7"	30'7"	31'2"	30'7"	30'7"	30'10"	30'7"	31'2"
Turning Radius – Corner SAE Carry	mm	11 097	11 121	11 131	11 096	11 122	11 085	11 085	11 742
(Tooth)	ft	36'5"	36'6"	36'6"	36'5"	36'6"	36'4"	36'4"	38'6"
Clearance at 45° Dump and 2.13 m (7 ft)	mm	2130	2130	2130	2130	2130	2130	2130	2130
Height (Tooth)	ft	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"
Reach at 45° Dump and 2.13 m (7 ft)	mm	3790	3828	3863	3787	3834	3777	3777	3631
Height (Tooth)	ft	12'5"	12'7"	12'8"	12'5"	12'7"	12'5"	12'5"	11'11"
Rack Back Angle at SAE Carry	degree	52.7	52.8	52.8	52.7	52.7	52.5	52.5	52.4
Full Dump at Maximum Lift	degree	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
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(chart continued on next page)

# **Operating Specifications – Standard Lift (Tier 4 Final)** *(continued)*

For machines equipped with 45/58-R45 L-5 58 ply tires (SLR: 1308 mm/4'3").

Bucket Type		1			Rock				Coal
Ground Engaging Tools				Te	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg lb	21 772 48,000	21 772 48,000	21 772 48,000	21 772 48,000	21 772 48,000	21 772 48,000	21 772 48,000	
Rated Capacity	m <sup>3</sup> yd <sup>3</sup>	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	_ _
Struck Capacity – ISO	$m^3$ $yd^3$	8.9 11.6	9.5 12.4	10.2 13.3	8.9 11.6	9.5 12.4	8.9 11.6	8.9 11.6	_ _ _
Heaped Capacity – ISO	$m^3$ $yd^3$	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	_
Tipping Load at Operating Weight  – Straight	kg	62 567	61 854	61 551	61 086	62 114	59 035	60 665	60 809
	lb	137,936	136,365	135,697	134,672	136,939	130,150	133,743	134,061
Tipping Load at Operating Weight  – Articulated 43°	kg	52 861	52 182	51 868	51 380	52 442	49 330	50 959	51 098
	lb	116,539	115,041	114,349	113,275	115,614	108,753	112,346	112,651
Tipping Load at Operating Weight  – Articulated 40°	kg lb	54 115	53 431	53 118	52 634 116,038	53 691	50 583	52 213 115,109	52 352 115,416
Tipping Load at Operating Weight  - Articulated 35°	kg	56 033	55 343	55 033	54 552	55 603	52 502	54 131	54 272
	lb	123,532	122,010	121,326	120,268	122,583	115,746	119,339	119,649
Tipping Load at Operating Weight  – Bucket Level Ground	kg	49 848	48 613	47 699	48 803	48 832	48 250	49 630	48 416
	lb	109,897	107,174	105,159	107,593	107,656	106,373	109,416	106,740
Tipping Load with Squash at	kg	60 483	59 774	59 434	59 012	60 033	56 960	58 593	58 602
Operating Weight – Straight	lb		131,780	131,030	130,099	132,350	125,574	129,175	129,195
Tipping Load with Squash at Operating Weight – Articulated 43°	kg	49 053	48 383	48 021	47 587	48 641	45 534	47 169	47 126
	lb	108,144	106,667	105,868	104,912	107,234	100,385	103,990	103,895
Tipping Load with Squash at Operating Weight – Articulated 40°	kg	50 451	49 777	49 417	48 984	50 034	46 931	48 566	48 530
	lb	111,226	109,739	108,946	107,992	110,306	103,465	107,070	106,989
Tipping Load with Squash at	kg	52 625	51 943	51 588	51 157	52 201	49 104	50 738	50 714
Operating Weight – Articulated 35°	lb	116,018	114,515	113,733	112,782	115,083	108,255	111,859	111,804
Tipping Load with Squash at Operating	kg	47 978	46 805	45 930	46 921	47 021	46 256	47 652	46 491
Weight – Bucket Level Ground	lb	105,774	103,188	101,257	103,443	103,665	101,977	105,054	102,495
Lift Capacity – Bucket Level Ground	kg	52 038	51 178	50 489	50 839	51 391	49 521	51 094	50 219
	lb	114,724	112,828	111,310	112,080	113,297	109,176	112,643	110,715
Breakout Force – SAE Rated	kgf	58 459	55 991	54 243	57 835	56 140	59 374	60 210	57 297
	lbf	128,879	123,439	119,584	127,504	123,767	130,896	132,741	126,318
Operating Weight	kg	99 438	99 831	100 211	100 817	99 612	102 987	101 193	101 595
	lb	219,224	220,091	220,928	222,264	219,608	227,049	223,093	223,980
Weight Distribution at SAE Carry  – Front	kg	54 994	55 729	56 359	57 333	55 335	60 822	57 971	58 322
	lb	121,241	122,862	124,251	126,398	121,993	134,091	127,804	128,578
Weight Distribution at SAE Carry  – Rear	kg	44 444	44 102	43 852	43 484	44 277	42 165	43 223	43 273
	lb	97,983	97,229	96,678	95,867	97,615	92,958	95,289	95,402
Loaded Machine Weight	kg	118 489	118 882	119 262	119 868	118 663	122 038	120 244	101 595
	1b	261,225	262,091	262,929	264,265	261,608	269,049	265,094	223,980
Weight Distribution at SAE Carry  – Front	kg	86 587	87 383	88 029	88 929	86 987	92 413	89 556	58 322
	lb	190,892	192,647	194,070	196,056	191,773	203,736	197,438	128,578
Weight Distribution at SAE Carry  – Rear	kg	31 902	31 499	31 234	30 939	31 677	29 626	30 688	43 273
	lb	70,333	69,444	68,859	68,209	69,835	65,313	67,656	95,402
Shipping Weight	kg	95 511	95 905	96 284	97 678	95 686	99 849	99 849	_
	lb	210,566	211,434	212,270	215,343	95,686	99,849	220,129	_

# **Operating Specifications – Standard Lift (Tier 2 Equivalent)**

For machines equipped with 45/58-R45 L-5 58 ply tires (SLR: 1308 mm/4'3").

Bucket Type		Rock					Coal		
Ground Engaging Tools				Te	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg	21 772	21 772	21 772	21 772	21 772	21 772	21 772	
	1b	48,000	48,000	48,000	48,000	48,000	48,000	48,000	
Rated Capacity	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	
	$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Struck Capacity – ISO	m <sup>3</sup>	8.9	9.5	10.2	8.9	9.5	8.9	8.9	
	$yd^3$	11.6	12.4	13.3	11.6	12.4	11.6	11.6	_
Heaped Capacity – ISO	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	
	$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Bucket Width – Overall	mm	4824	4884	4824	4884	4824	4900	4900	6090
	ft	15'1"	16'0"	15'10"	16'0"	15'10"	16'1"	16'1"	20'0"
Clearance at 50° Dump (Edge)	mm	4742	4673	4625	4742	4675	4832	4832	4772
	ft	15'7"	15'4"	15'2"	15'7"	15'4"	15'10"	15'10"	15'8"
Clearance at 50° Dump (Tooth Tip)	mm	4480	4417	4360	4486	4413	4574	4574	4772
	ft	14'8"	14'6"	14'4"	14'9"	14'6"	15'0"	15'0"	15'8"
Reach at 50° Dump (Edge)	mm	1906	1957	1998	1906	1960	1858	1858	1925
	ft	6'3"	6'5"	6'7"	6'3"	6'5"	6'1"	6'1"	6'4"
Reach at 50° Dump (Tooth Tip)	mm	2118	2165	2209	2114	2171	2092	2092	1925
	ft	6'11"	7'1"	7'3"	6'11"	7'1"	6'10"	6'10"	6'4"
Clearance at 45° Dump (Edge)	mm	4849	4785	4741	4849	4788	4935	4935	4881
	ft	15'11"	15'8"	15'7"	15'11"	15'9"	16'2"	16'2"	16'0"
Clearance at 45° Dump (Tooth Tip)	mm	4607	4548	4495	4612	4545	4699	4699	4881
	ft	15'1"	14'11"	14'9"	15'2"	14'11"	15'5"	15'5"	16'0"
Reach at 45° Dump (Edge)	mm	2092	2149	2194	2092	2151	2036	2036	2109
	ft	6'10"	7'1"	7'2"	6'10"	7'1"	6'8"	6'8"	6'11"
Reach at 45° Dump (Tooth Tip)	mm	2326	2378	2427	2322	2385	2292	2292	2109
	ft	7'8"	7'10"	8'0"	7'7"	7'10"	7'6"	7'6"	6'11"
Bucket Pin at Maximum Lift	mm	6927	6927	6927	6927	6927	6927	6927	6927
	ft	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"	22'9"
Horizontal Arm and Level Bucket Reach	mm	5114	5193	5265	5108	5200	5025	5025	4767
	ft	16'9"	17'0"	17'3"	16'9"	17'1"	16'6"	16'6"	15'8"
Digging Depth (Segment)	mm	196	201	201	196	198	175	175	162
	in	8"	8"	8"	8"	8"	7"	7"	6"
Overall Length – Bucket Level Ground	mm	15 736	15 818	15 890	15 729	15 823	15 632	15 632	15 366
(Tooth)	ft	51'8"	51'11"	52'2"	51'7"	51'11"	51'3"	51'3"	50'5"
Overall Height	mm	9313	9313	9492	9313	9313	9392	9313	9489
	ft	30'7"	30'7"	31'2"	30'7"	30'7"	30'10"	30'7"	31'2"
Turning Radius – Corner SAE Carry	mm	11 097	11 121	11 131	11 096	11 122	11 085	11 085	11 742
(Tooth)	ft	36'5"	36'6"	36'6"	36'5"	36'6"	36'4"	36'4"	38'6"
Clearance at 45° Dump and 2.13 m (7 ft)	mm	2130	2130	2130	2130	2130	2130	2130	2130
Height (Tooth)	ft	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"
Reach at 45° Dump and 2.13 m (7 ft)	mm	3790	3828	3863	3787	3834	3777	3777	3631
Height (Tooth)	ft	12'5"	12'7"	12'8"	12'5"	12'7"	12'5"	12'5"	11'11"
Rack Back Angle at SAE Carry	degree	52.7	52.8	52.8	52.7	52.7	52.5	52.5	52.4
Full Dump at Maximum Lift	degree	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
		•	•	•	•		•	•	•

(chart continued on next page)

# **Operating Specifications – Standard Lift (Tier 2 Equivalent)** *(continued)*

For machines equipped with 45/58-R45 L-5 58 ply tires (SLR: 1308 mm/4'3").

Cutting Edge Type	Bucket Type		1			Rock				Coal
Bucket Part No. Group Level)	Ground Engaging Tools				Tec	eth & Segm	ent			Segment
Bucket Part No. Group Level)	Cutting Edge Type					Spade				Straight
Rated Capacity			490-1840	484-6620	490-1860		490-1850	490-1890	490-1880	
Rated Capacity	Bucket Load at Rated Capacity	kg	21 772	21 772	21 772	21 772	21 772	21 772	21 772	_
Struck Capacity – ISO         m² by de plant         18,0 by de plant         16,0 by de plant         18,0 by de pl		_	48,000	48,000	48,000	48,000	48,000	48,000	48,000	
Struck Capacity – ISO	Rated Capacity	m <sup>3</sup>	10.7	11.5	12.3	10.7	11.5	10.7	10.7	
Heaped Capacity ISO		$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Heaped Capacity – ISO	Struck Capacity – ISO	$m^3$	8.9	9.5	10.2	8.9	9.5	8.9	8.9	_
14.0   15.0   16.0		$yd^3$	11.6	12.4	13.3	11.6	12.4	11.6	11.6	_
Tipping Load at Operating Weight   kg   62 261   61 550   61 246   60 780   61 810   58 730   60 359   60 503   -Straight   lb   137,623   135,694   135,002   133,998   136,267   129,477   133,070   133,378   -Tipping Load at Operating Weight   kg   52 531   51 88   51 508   52 112   48 999   50 60 29   50 767   -Articulated 43°   lb   115,811   114,315   13,622   112,546   114,888   108,025   111,618   111,923   -Tipping Load at Operating Weight   kg   53 787   53 105   52 72   52 307   53 365   50 256   51 885   52 024   -Articulated 40°   lb   118,881   117,076   116,386   115,610   117,649   110,795   114,388   114,694   -Articulated 35°   lb   122,822   21,302   20,617   19,557   21,875   115,035   118,629   118,597   -Articulated 35°   lb   122,822   21,302   20,617   19,557   21,875   115,035   118,629   118,973   -Articulated 35°   lb   122,822   21,302   20,617   19,557   21,875   115,035   118,629   118,973   -Articulated 35°   lb   122,821   21,302   20,617   19,557   21,875   115,035   118,629   118,973   -Articulated 35°   lb   132,681   131,120   107,641   107,131   105,829   108,722   106,205   -Articulated 35°   lb   132,681   131,120   130,370   129,437   131,690   124,912   128,513   128,534   -ABucket Level Ground   lb   132,681   131,120   130,370   129,437   131,690   124,912   128,513   128,534   -ABucket Level Ground   lb   132,681   131,120   130,370   129,437   131,690   124,912   128,513   128,534   -ABucket Level Ground   lb   110,492   109,007   105,128   104,169   106,496   104,912   128,513   128,534   -ABucket Level Ground   lb   110,492   109,007   105,128   104,169   106,496   104,914   104,527   101,175   -ABUCket Level Ground   lb   110,492   109,007   105,128   104,169   106,496   104,597   104,128   104,597   -ABUCket Level Ground   lb   110,492   109,007   105,128   104,597   104,128   104,597   104,525   -ABUCket Level Ground   lb   110,492   109,007   130,498   150,803   151,79   101,415   104,527   101,175   -ABUCket Level Ground   lb   114,724   112,888   113,908   1	Heaped Capacity – ISO	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	_
-Straight         Ib         137,263         135,094         135,024         133,098         136,267         129,477         133,070         133,878           Tipping Load at Operating Weight         kg         52 531         51 852         51 508         52 112         48 999         50 629         50 767           Tipping Load at Operating Weight         kg         53 787         31 05         52 792         52 307         53 365         50 256         51 885         50 24-Articulated 40°           Tipping Load at Operating Weight         kg         55 711         55 022         52 110         48 20         116,681         111,681         111,631         116,386         115,316         117,649         110,939         114,388         114,694           Tipping Load at Operating Weight         kg         55 711         55 022         54 11         54 20         55 282         5179         58 809         59 3949           Articulated 35°         lb         102,282         113,002         104,611         119,557         12,875         118,693         118,693         118,693         118,693         118,693         118,693         118,693         118,693         118,693         118,693         118,693         118,593         118,693         118,693		$yd^3$	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Tipping Load at Operating Weight	Tipping Load at Operating Weight	kg	62 261	61 550	61 246	60 780	61 810	58 730	60 359	60 503
Tipping Load at Operating Weight   Kg   S5 781   S1 787   S1 785   S2 792   S2 707   S3 865   S0 256   S1 885   S2 024   Articulated 40°   Ib   I18,581   I17,076   I16,386   I15,316   I17,649   I10,795   I14,388   I14,694   Tipping Load at Operating Weight   Kg   S5 711   S5 022   S4 711   S4 230   S5 282   S2 179   S3 809   S3 949   Articulated 35°   Ib   I22,822   I21,002   I20,617   I19,557   I21,875   I15,035   I18,669   I18,931   Tipping Load at Operating Weight   Kg   49 607   48 376   47 465   48 562   48 595   48 003   49 344   48 174   Bucket Level Ground   Ib   I09,365   I06,651   I04,642   I07,061   I07,133   I05,829   I08,872   I06,055   I79ping Load with Squash at   Kg   60 183   S9 475   S9 135   S8 712   S9 733   S6 659   S8 292   S8 302   S7 79	- Straight	lb	137,263	135,694	135,024	133,998	136,267	129,477	133,070	133,387
Tipping Load at Operating Weight		kg	52 531	51 852	51 538	51 050	52 112	48 999	50 629	
Articulated 40°         Ib         118,581         117,076         116,366         115,316         117,649         110,795         114,388         114,649           Tipping Load at Operating Weight Articulated 35°         lb         122,822         121,030         120,617         115,557         115,035         118,037         118,937           Tipping Load at Operating Weight Articulated 35°         kg         49 607         48 376         47 465         48 562         48 595         48 03         49 384         48 174           Bucket Level Ground         lb         109,365         106,651         104,642         107,061         107,133         105,829         108,872         106,205           Operating Weight Squash at Operating Weight Squash at Individual Mark Squash at Operating Weight Articulated 43°         kg         48 716         48 048         47 685         47 250         48 305         45 197         46 832         46 790           Operating Weight Articulated 40°         lb         107,401         105,927         105,128         104,169         104,09         04 59,942         103,247         103,158           Tipping Load with Squash at Operating Weight Articulated 35°         kg         52 28         51 618         51 626         50 830         51 875         48 777         50 412<	– Articulated 43°	1b	115,811	114,315	113,622	112,546	114,888	108,025	111,618	111,923
Tipping Load at Operating Weight		kg	1		1		1			
Articulated 35°         Ib         122,822         121,302         120,617         119,557         121,875         115,035         118,629         118,937           Tipping Load at Operating Weight Bucket Level Ground         kg         49 607         48 376         47 465         48 562         48 595         48 003         49 384         48 174           Bucket Level Ground         lb         109,365         106,651         104,642         107,061         107,133         105,829         108,872         106,205           Tipping Load with Squash at Operating Weight – Straight         lb         132,681         131,120         130,370         129,437         131,690         124,912         128,513         128,534           Tipping Load with Squash at Operating Weight – Articulated 43°         lb         107,901         105,927         105,128         104,169         106,494         99,642         103,247         103,247         103,247         103,125         104,604         196,962         103,247         103,247         103,157         106,335         106,335         48 197           Tipping Load with Squash at Operating Weight – Articulated 40°         lb         110,492         109,007         108,214         107,258         109,575         102,731         106,335         111,399	– Articulated 40°	lb	118,581	117,076	116,386	115,316	117,649	110,795	114,388	114,694
Tipping Load at Operating Weight			1		1		1	1		
Bucket Level Ground         Ib         109,365         106,651         104,642         107,061         107,133         105,829         108,872         106,205           Tipping Load with Squash at Operating Weight – Straight         kg         60 183         59 475         59 135         58 712         59 733         56 659         58 292         58 302           Tipping Load with Squash at Operating Weight – Articulated 43°         kg         48 716         48 048         47 685         47 250         48 305         45 197         46 832         46 790           Operating Weight – Articulated 43°         lb         107,401         105,927         105,128         104,169         106,494         99,642         103,247         103,154           Tipping Load with Squash at Operating Weight – Articulated 40°         kg         50 118         49 445         49 085         48 651         49 702         46 598         48 233         48 197           Operating Weight – Articulated 40°         lb         110,492         109,007         108,214         107,258         109,575         102,371         106,336         106,257           Tipping Load with Squash at Operating Weight – Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,334					-					
Tipping Load with Squash at Operating Weight - Straight   1b   132,681   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,120   130,370   129,437   131,690   124,912   128,513   128,534   131,130   104,691   106,494   99,642   103,247   103,154   132,134   13			1							
Operating Weight - Straight         Ib         132,681         131,120         130,370         129,437         131,690         124,912         128,513         128,534           Tipping Load with Squash at Operating Weight - Articulated 43°         kg         48 716         48 048         47 685         47 250         48 305         45 197         46 832         46 790           Tipping Load with Squash at Operating Weight - Articulated 40°         lb         110,492         109,007         108,214         107,258         109,575         102,731         106,336         106,257           Tipping Load with Squash at Operating Weight - Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight - Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight - Bucket Level Ground         kg         52 298         51 618         51 263         50 830         51 875         48 777         50 412         50 318           Tipping Load with Squash at Operating Weight - Bucket Level Ground         kg         52 038         51 178         46 7			<u> </u>		· ·	-	-		-	
Tipping Load with Squash at Operating Weight — Articulated 43°   1b   107,401   105,927   105,128   104,169   106,494   99,642   103,247   103,154			I		1				1	
Operating Weight – Articulated 43°         lb         107,401         105,927         105,128         104,169         106,494         99,642         103,247         103,154           Tipping Load with Squash at Operating Weight – Articulated 40°         lb         110,492         109,007         108,214         107,258         109,575         102,731         106,336         106,257           Tipping Load with Squash at Operating Weight – Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight – Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight – Articulated 35°         kg         47 744         46 575         45 702         46 687         46 791         46 017         47 413         46 256           Weight – Bucket Level Ground         kg         52 038         51 178         50 489         58 39         51 391         49 521         51 094         50 219           Lift Capacity – Bucket Level Ground         kg         58 459         55 91         119,584         127,504         123,767				-						
Tipping Load with Squash at Operating Weight - Articulated 40°   1b   110,492   109,007   108,214   107,258   109,575   102,731   106,336   106,257   109,107   108,214   107,258   109,575   102,731   106,336   106,257   109,107   108,214   107,258   109,575   102,731   106,336   106,257   109,107   109,			1							
Operating Weight – Articulated 40°         lb         110,492         109,007         108,214         107,258         109,575         102,731         106,336         106,257           Tipping Load with Squash at Operating Weight – Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight – Bucket Level Ground         kg         47744         46575         45702         46687         46791         44017         47413         46256           Weight – Bucket Level Ground         lb         105,258         102,680         100,755         102,927         103,157         101,451         104,527         101,977           Lift Capacity – Bucket Level Ground         kg         52 038         51 178         50489         50 839         51 391         49 521         51 094         50 219           Lift Capacity – Bucket Level Ground         kg         52 455         55 991         54 243         57 835         56 140         59 374         60 210         57 297           Lift Capacity – Bucket Level Ground         kg         58 459         55 991         54 243         57 835         56 140         59 374         60 210         57 297					· ·	-	-	-		
Tipping Load with Squash at Operating Weight - Articulated 35°   1b   115,297   113,797   113,015   112,061   114,365   107,534   111,139   111,085			1							
Operating Weight – Articulated 35°         lb         115,297         113,797         113,015         112,061         114,365         107,534         111,139         111,085           Tipping Load with Squash at Operating Weight – Bucket Level Ground         kg         47 744         46 575         45 702         46 687         46 791         46 017         47 413         46 256           Weight – Bucket Level Ground         kg         52 038         51 178         50 489         50 839         51 391         49 521         51 094         50 219           Lift Capacity – Bucket Level Ground         kg         52 038         51 178         50 489         50 839         51 391         49 521         51 094         50 219           Breakout Force – SAE Rated         kgf         58 459         55 991         54 243         57 835         56 140         59 374         60 210         57 297           Ibf         128,879         123,439         119,584         127,504         123,767         130,896         132,741         126,318           Operating Weight         kg         98 882         99 275         190 55         100 261         99 056         102 431         100 637         101 039           Jeroting Weight Distribution at SAE Carry         kg			<u> </u>	ļ						
Tipping Load with Squash at Operating   kg   47 744   46 575   45 702   46 687   46 791   46 017   47 413   46 256   Weight – Bucket Level Ground   lb   105,258   102,680   100,755   102,927   103,157   101,451   104,527   101,977			1		l		1	1		
Weight – Bucket Level Ground         Ib         105,258         102,680         100,755         102,927         103,157         101,451         104,527         101,977           Lift Capacity – Bucket Level Ground         kg         52 038         51 178         50 489         50 839         51 391         49 521         51 094         50 219           Breakout Force – SAE Rated         kgf         58 459         55 991         54 243         57 835         56 140         59 374         60 210         57 297           Ibf         128,879         123,439         119,584         127,504         123,767         130,896         132,741         126,318           Operating Weight         kg         98 882         99 275         99 655         100 261         99 056         102 431         100 637         101 039           Weight Distribution at SAE Carry         kg         54 652         55 387         56 017         56 991         54 993         60 481         57 629         57 980           Front         lb         120,487         122,107         123,496         125,643         121,239         133,337         127,050         127,824           Weight Distribution at SAE Carry         kg         44 231         43 889         43 638 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td></td>								_		
Lift Capacity – Bucket Level Ground kg   52 038   51 178   50 489   50 839   51 391   49 521   51 094   50 219   114,724   112,828   111,310   112,080   113,297   109,176   112,643   110,715   128,879   123,439   119,584   127,504   123,767   130,896   132,741   126,318   128,879   123,439   119,584   127,504   123,767   130,896   132,741   126,318   128,879   123,439   119,584   127,504   123,767   130,896   132,741   126,318   126,318   126,318   127,999   18,865   129,703   121,039   128,382   125,823   121,339   127,415   126,318   120,487   122,107   123,496   125,643   121,239   133,337   127,050   127,824   126,318   120,487   122,107   123,496   125,643   121,239   133,337   127,050   127,824   126,318   120,487   122,107   123,496   125,643   121,239   133,337   127,050   127,824   126,318   120,487   122,107   123,496   125,643   121,239   133,337   127,050   127,824   126,318   120,487   122,107   123,496   125,643   121,239   133,337   127,050   127,824   126,318   126,			1		1		1			
B			<del>-</del>	-		-			-	
Breakout Force – SAE Rated         kgf         58 459         55 991         54 243         57 835         56 140         59 374         60 210         57 297           Operating Weight         kg         98 882         99 275         99 655         100 261         99 056         102 431         100 637         101 039           Weight Distribution at SAE Carry – Front         kg         54 652         55 387         56 017         56 991         54 993         60 481         57 629         57 980           Weight Distribution at SAE Carry – Front         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           – Rear         lb         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry – Front         kg         86 247	Lift Capacity – Bucket Level Ground		1		1		1			
Tell	Davidsont France CAF Date 1									
Operating Weight         kg         98 882         99 275         99 655         100 261         99 056         102 431         100 637         101 039           Weight Distribution at SAE Carry         kg         54 652         55 387         56 017         56 991         54 993         60 481         57 629         57 980           Front         lb         120,487         122,107         123,496         125,643         121,239         133,337         127,050         127,824           Weight Distribution at SAE Carry         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           Rear         lb         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         lb         190,142         191,898         193,321 <t< td=""><td>Breakout Force – SAE Rated</td><td></td><td>1</td><td></td><td>1</td><td></td><td></td><td>1</td><td></td><td></td></t<>	Breakout Force – SAE Rated		1		1			1		
Weight Distribution at SAE Carry         kg         54 652         55 387         56 017         56 991         54 993         60 481         57 629         57 980           Front         1b         120,487         122,107         123,496         125,643         121,239         133,337         127,050         127,824           Weight Distribution at SAE Carry         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           Rear         1b         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         31 01	Operating Weight			-				-		
Weight Distribution at SAE Carry         kg         54 652         55 387         56 017         56 991         54 993         60 481         57 629         57 980           - Front         lb         120,487         122,107         123,496         125,643         121,239         133,337         127,050         127,824           Weight Distribution at SAE Carry         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           - Rear         lb         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         3	Operating weight		1		1		1			
Front         Ib         120,487         122,107         123,496         125,643         121,239         133,337         127,050         127,824           Weight Distribution at SAE Carry - Rear         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry - Front         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           Weight Distribution at SAE Carry - Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry - Rear         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           - Rear         lb         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511	Weight Distribution at SAE Carry		<b>.</b>	<u> </u>						
Weight Distribution at SAE Carry – Rear         kg         44 231         43 889         43 638         43 271         44 064         41 951         43 009         43 059           – Rear         lb         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           Rear         lb         69,856         68,967         68,382 <td></td> <td></td> <td>1</td> <td></td> <td>1</td> <td></td> <td></td> <td>1</td> <td></td> <td></td>			1		1			1		
- Rear         lb         97,512         96,758         96,206         95,395         97,143         92,486         94,818         94,930           Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           - Rear         lb         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         -				-						
Loaded Machine Weight         kg         117 933         118 326         118 706         119 312         118 107         121 482         119 688         101 039           Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           - Rear         lb         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —			1		1		1	1		
Weight Distribution at SAE Carry – Front         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           Weight Distribution at SAE Carry – Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry – Rear         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —			<b>.</b>	ļ						
Weight Distribution at SAE Carry         kg         86 247         87 043         87 689         88 590         86 647         92 073         89 217         57 980           - Front         1b         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           - Rear         1b         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —	Zonasa muommo moigiit				l			1	1	
Front         lb         190,142         191,898         193,321         195,307         191,024         202,987         196,689         127,824           Weight Distribution at SAE Carry - Rear         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —	Weight Distribution at SAE Carry									
Weight Distribution at SAE Carry         kg         31 686         31 283         31 018         30 723         31 461         29 409         30 472         43 059           - Rear         lb         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —	•		1		1		1	1		
Rear         1b         69,856         68,967         68,382         67,732         69,359         64,836         67,179         94,930           Shipping Weight         kg         95 511         95 905         96 284         97 678         95 686         99 849         99 849         —			<b>!</b>	-						
Shipping Weight kg 95 511 95 905 96 284 97 678 95 686 99 849 99 849 —	•		1		l		1		1	
	Shipping Weight	kg		ļ						_
			I	1	1		1	1		_

# **Operating Specifications – High Lift (Tier 4 Final)**

For machines equipped with 45/58-R45 L-5 46 ply tires (SLR: 1308 mm/4'3").

Bucket Type					Rock				Coal
Ground Engaging Tools				Tec	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg lb	19 051 42,000							
Rated Capacity	m³ yd³	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	_
Struck Capacity – ISO	m³ yd³	8.9 11.6	9.5 12.4	10.2 13.3	8.9 11.6	9.5 12.4	8.9 11.6	8.9 11.6	_
Heaped Capacity – ISO	m³ yd³	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	_
Bucket Width – Overall	mm	4824	4884	4824	4884	4824	4900	4900	6090
	ft	15'10"	16'0"	15'10"	16'0"	15'10"	16'1"	16'1"	20'0"
Clearance at 50° Dump (Edge)	mm	5359	5290	5242	5359	5293	5450	5450	5389
	ft	17'7"	17'4"	17'2"	17'7"	17'4"	17'11"	17'11"	17'8"
Clearance at 50° Dump (Tooth Tip)	mm	5097	5034	4977	5103	5030	5192	5192	5389
	ft	16'9"	16'6"	16'4"	16'9"	16'6"	17'0"	17'0"	17'8"
Reach at 50° Dump (Edge)	mm	1773	1824	1865	1773	1827	1725	1725	1792
	ft	5'10"	6'0"	6'1"	5'10"	6'0"	5'8"	5'8"	5'11"
Reach at 50° Dump (Tooth Tip)	mm	1985	2032	2076	1982	2038	1959	1959	1792
	ft	6'6"	6'8"	6'10"	6'6"	6'8"	6'5"	6'5"	5'11"
Clearance at 45° Dump (Edge)	mm	5466	5402	5358	5466	5405	5553	5553	5498
	ft	17'11"	17'9"	17'7"	17'11"	17'9"	18'3"	18'3"	18'0"
Clearance at 45° Dump (Tooth Tip)	mm	5224	5166	5112	5229	5162	5316	5316	5498
	ft	17'2"	16'11"	16'9"	17'2"	16'11"	17'5"	17'5"	18'0"
Reach at 45° Dump (Edge)	mm	1960	2016	2061	1960	2019	1903	1903	1976
	ft	6'5"	6'7"	6'9"	6'5"	6'7"	6'3"	6'3"	6'6"
Reach at 45° Dump (Tooth Tip)	mm	2193	2246	2294	2189	2252	2159	2159	1976
	ft	7'2"	7'4"	7'6"	7'2"	7'5"	7'1"	7'1"	6'6"
Bucket Pin at Maximum Lift	mm	7544	7544	7544	7544	7544	7544	7544	7544
	ft	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"
Horizontal Arm and Level Bucket Reach	mm	5504	5583	5655	5498	5590	5415	5415	5157
	ft	18'1"	18'4"	18'7"	18'0"	18'4"	17'9"	17'9"	16'11"
Digging Depth (Segment)	mm	176	181	181	176	178	155	155	142
	in	7"	7"	7"	7"	7"	6"	6"	6"
Overall Length – Bucket Level Ground (Tooth)	mm	16 197	16 279	16 351	16 191	16 284	16 095	16 095	15 829
	ft	53'2"	53'5"	53'8"	53'1"	53'5"	52'10"	52'10"	51'11"
Overall Height	mm	9930	9930	10 109	9930	9930	10 009	9930	10 106
	ft	32'7"	32'7"	33'2"	32'7"	32'7"	32'10"	32'7"	33'2"
Turning Radius – Corner SAE Carry (Tooth)	mm	11 326	11 352	11 363	11 324	11 352	11 313	11 313	11 962
	ft	37'2"	37'3"	37'3"	37'2"	37'3"	37'1"	37'1"	39'3"
Clearance at 45° Dump and 2.13 m (7 ft)	mm	2130	2130	2130	2130	2130	2130	2130	2130
Height (Tooth)	ft	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"
Reach at 45° Dump and 2.13 m (7 ft)	mm	4190	4230	4265	4188	4235	4176	4176	4027
Height (Tooth)	ft	13'9"	13'11"	14'0"	13'9"	13'11"	13'8"	13'8"	13'3"
Rack Back Angle at SAE Carry Full Dump at Maximum Lift	degree	52.5	52.5	52.5	52.5	52.5	52.3	52.3	52.1
	degree	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0

(chart continued on next page)

# **Operating Specifications – High Lift (Tier 4 Final)** *(continued)*

For machines equipped with 45/58-R45 L-5 46 ply tires (SLR: 1308 mm/4'3").

Bucket Type		Rock						Coal	
Ground Engaging Tools				Te	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg 1b	19 051 42,000	_						
Rated Capacity	$m^3$ $yd^3$	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	
Struck Capacity – ISO	$m^3$ $yd^3$	8.9 11.6	9.5 12.4	10.2 13.3	8.9 11.6	9.5 12.4	8.9 11.6	8.9 11.6	
Heaped Capacity – ISO	$m^3$ $yd^3$	10.7 14.0	11.5 15.0	12.3 16.0	10.7 14.0	11.5 15.0	10.7 14.0	10.7 14.0	_
Tipping Load at Operating Weight  – Straight	kg	58 333	57 670	57 380	56 856	57 927	54 794	56 438	56 623
	1b	128,603	127,140	126,501	125,346	127,706	120,799	124,425	124,833
Tipping Load at Operating Weight  – Articulated 43°	kg	49 006	48 370	48 068	47 529	48 627	45 466	47 111	47 279
	lb	108,039	106,638	105,971	104,782	107,204	100,236	103,861	104,232
Tipping Load at Operating Weight  – Articulated 40°	kg	50 210	49 571	49 270	48 733	49 828	46 671	48 315	48 485
	lb	110,695	109,285	108,622	107,438	109,851	102,891	106,517	106,892
Tipping Load at Operating Weight  – Articulated 35°	kg	52 054	51 409	51 111	50 577	51 666	48 515	50 159	50 333
	lb	114,760	113,338	112,681	111,503	113,905	106,956	110,582	110,965
Tipping Load at Operating Weight  – Bucket Level Ground	kg	46 130	45 024	44 190	45 058	45 238	44 277	45 692	44 592
	lb	101,700	99,260	97,422	99,336	99,733	97,615	100,733	98,308
Tipping Load with Squash at	kg	56 533	55 871	55 550	55 064	56 127	53 001	54 648	54 717
Operating Weight – Straight	lb	124,635	123,175	122,467	121,395	123,739	116,847	120,478	120,630
Tipping Load with Squash at	kg	45 573	44 943	44 597	44 109	45 198	42 045	43 694	43 697
Operating Weight – Articulated 43°	1b	100,472	99,083	98,319	97,244	99,644	92,694	96,329	96,335
Tipping Load with Squash at	kg	46 913	46 279	45 936	45 449	46 534	43 385	45 033	45 044
Operating Weight – Articulated 40°	lb	103,426	102,028	101,271	100,197	102,590	95,647	99,281	99,305
Tipping Load with Squash at	kg	48 997	48 357	48 019	47 531	48 612	45 467	47 115	47 140
Operating Weight – Articulated 35°	lb	108,019	106,609	105,863	104,788	107,171	100,237	103,871	103,925
Tipping Load with Squash at Operating	kg	44 589	43 528	42 723	43 507	43 741	42 644	44 071	43 011
Weight – Bucket Level Ground	lb	98,302	95,964	94,189	95,918	96,433	94,014	97,159	94,822
Lift Capacity – Bucket Level Ground	kg	47 125	46 348	45 716	45 909	46 561	44 460	46 053	45 263
	lb	103,893	102,180	100,786	101,213	102,649	98,017	101,530	99,787
Breakout Force – SAE Rated	kgf	57 975	55 521	53 785	57 351	55 673	58 884	59 721	56 836
	lbf	127,813	122,403	118,576	126,438	122,737	129,817	131,662	125,302
Operating Weight	kg	100 628	101 021	101 401	102 007	100 802	104 177	102 383	102 785
	lb	221,846	222,713	223,551	224,887	222,230	229,671	225,716	226,602
Weight Distribution at SAE Carry  – Front	kg	55 908	56 675	57 337	58 360	56 263	62 032	59 032	59 420
	lb	123,256	124,947	126,406	128,662	124,039	136,758	130,143	130,998
Weight Distribution at SAE Carry  – Rear	kg	44 720	44 346	44 064	43 647	44 539	42 145	43 351	43 365
	lb	98,591	97,766	97,145	96,224	98,191	92,913	95,572	95,604
Loaded Machine Weight	kg	119 679	120 072	120 452	121 058	119 853	123 228	121 434	102 785
	1b	263,847	264,713	265,551	266,887	264,230	271,671	267,716	226,602
Weight Distribution at SAE Carry  – Front	kg	89 082	89 911	90 589	91 539	89 497	95 209	92 202	59 420
	lb	196,393	198,219	199,714	201,809	197,306	209,899	203,272	130,998
Weight Distribution at SAE Carry  - Rear	kg	30 597	30 161	29 863	29 519	30 356	28 019	29 231	43 365
	1b	67,454	66,494	65,837	65,078	66,924	61,772	64,444	95,604
Shipping Weight	kg lb	_ _							_ 

# **Operating Specifications – High Lift (Tier 2 Equivalent)**

For machines equipped with 45/58-R45 L-5 46 ply tires (SLR: 1308 mm/4'3").

Bucket Type		Rock					Coal		
Ground Engaging Tools				Te	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg lb	19 051 42,000	_						
Rated Capacity	$\frac{10}{\text{m}^3}$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	
Rated Capacity	yd <sup>3</sup>	14.0	15.0	16.0	14.0	15.0	14.0	14.0	_
Struck Capacity – ISO	m <sup>3</sup>	8.9	9.5	10.2	8.9	9.5	8.9	8.9	_
	$yd^3$	11.6	12.4	13.3	11.6	12.4	11.6	11.6	_
Heaped Capacity – ISO	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	_
	yd³	14.0	15.0	16.0	14.0	15.0	14.0	14.0	
Bucket Width - Overall	mm	4824	4884	4824	4884	4824	4900	4900	6090
	ft	15'10"	16'0"	15'10"	16'0"	15'10"	16'1"	16'1"	20'0"
Clearance at 50° Dump (Edge)	mm	5359	5290	5242	5359	5293	5450	5450	5389
	ft	17'7"	17'4"	17'2"	17'7"	17'4"	17'11"	17'11"	17'8"
Clearance at 50° Dump (Tooth Tip)	mm	5097	5034	4977	5103	5030	5192	5192	5389
	ft	16'9"	16'6"	16'4"	16'9"	16'6"	17'0"	17'0"	17'8"
Reach at 50° Dump (Edge)	mm	1773	1824	1865	1773	1827	1725	1725	1792
	ft	5'10"	6'0"	6'1"	5'10"	6'0"	5'8"	5'8"	5'11"
Reach at 50° Dump (Tooth Tip)	mm	1985	2032	2076	1982	2038	1959	1959	1792
	ft	6'6"	6'8"	6'10"	6'6"	6'8"	6'5"	6'5"	5'11"
Clearance at 45° Dump (Edge)	mm	5466	5402	5358	5466	5405	5553	5553	5498
	ft	17'11"	17'9"	17'7"	17'11"	17'9"	18'3"	18'3"	18'0"
Clearance at 45° Dump (Tooth Tip)	mm	5224	5166	5112	5229	5162	5316	5316	5498
	ft	17'2"	16'11"	16'9"	17'2"	16'11"	17'5"	17'5"	18'0"
Reach at 45° Dump (Edge)	mm	1960	2016	2061	1960	2019	1903	1903	1976
	ft	6'5"	6'7"	6'9"	6'5"	6'7"	6'3"	6'3"	6'6"
Reach at 45° Dump (Tooth Tip)	mm	2193	2246	2294	2189	2252	2159	2159	1976
	ft	7'2"	7'4"	7'6"	7'2"	7'5"	7'1"	7'1"	6'6"
Bucket Pin at Maximum Lift	mm	7544	7544	7544	7544	7544	7544	7544	7544
	ft	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"	24'9"
Horizontal Arm and Level Bucket Reach	mm	5504	5583	5655	5498	5590	5415	5415	5157
	ft	18'1"	18'4"	18'7"	18'0"	18'4"	17'9"	17'9"	16'11"
Digging Depth (Segment)	mm	176	181	181	176	178	155	155	142
	in	7"	7"	7"	7"	7"	6"	6"	6"
Overall Length – Bucket Level Ground (Tooth)	mm ft	16 197 53'2"	16 279 53'5"	16 351 53'8"	16 191 53'1"	16 284 53'5"	16 095 52'10"	16 095 52'10"	15 829 51'11"
Overall Height		9930	9930	10 109	9930	9930	10 009	9930	10 106
Overall Height	mm ft	32'7"	32'7"	33'2"	32'7"	32'7"	32'10"	32'7"	33'2"
Turning Radius – Corner SAE Carry	mm	11 326	11 352	11 363	11 324	11 352	11 313	11 313	11 962
(Tooth)	ft	37'2"	37'3"	37'3"	37'2"	37'3"	37'1"	37'1"	39'3"
Clearance at 45° Dump and 2.13 m (7 ft)	mm	2130	2130	2130	2130	2130	2130	2130	2130
Height (Tooth)	ft	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"	7'0"
Reach at 45° Dump and 2.13 m (7 ft)	mm	4190	4230	4265	4188	4235	4176	4176	4027
Height (Tooth)	ft	13'9"	13'11"	14'0"	13'9"	13'11"	13'8"	13'8"	13'3"
Rack Back Angle at SAE Carry	degree	52.5	52.5	52.5	52.5	52.5	52.3	52.3	52.1
Full Dump at Maximum Lift	degree	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
* · · · ·	6 - 7	1	1	1	1	1	1	1	

(chart continued on next page)

# **Operating Specifications – High Lift (Tier 2 Equivalent)** *(continued)*

For machines equipped with 45/58-R45 L-5 46 ply tires (SLR: 1308 mm/4'3").

Bucket Type		Rock							Coal
Ground Engaging Tools				Ted	eth & Segm	ent			Segment
Cutting Edge Type					Spade				Straight
Bucket Part No. (Group Level)		490-1840	484-6620	490-1860	490-1870	490-1850	490-1890	490-1880	294-9020
Bucket Load at Rated Capacity	kg	19 051	19 051	19 051	19 051	19 051	19 051	19 051	_
	lb	42,000	42,000	42,000	42,000	42,000	42,000	42,000	
Rated Capacity	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	_
	yd³	14.0	15.0	16.0	14.0	15.0	14.0	14.0	
Struck Capacity – ISO	$m^3$	8.9	9.5	10.2	8.9	9.5	8.9	8.9	_
	yd³	11.6	12.4	13.3	11.6	12.4	11.6	11.6	
Heaped Capacity – ISO	$m^3$	10.7	11.5	12.3	10.7	11.5	10.7	10.7	_
	yd³	14.0	15.0	16.0	14.0	15.0	14.0	14.0	
Tipping Load at Operating Weight	kg	58 052	57 389	57 099	56 574	57 646	54 512	56 157	56 341
- Straight	lb	127,982	125,690	125,882	124,725	127,087	120,179	123,804	124,211
Tipping Load at Operating Weight  – Articulated 43°	kg	48 701 107,368	48 067 105,272	47 764 105,301	47 224 104,111	48 323 106,535	45 162 99,565	46 806 103,190	46 974 103,559
Tipping Load at Operating Weight	lb lsa	49 909	49 270	48 969	48 432	49 527	46 369	48 014	48 183
- Articulated 40°	kg lb	110,030	107,909	107,959	106,773	109,189	102,227	105,852	106,226
Tipping Load at Operating Weight	kg	51 757	51 113	50 815	50 280	51 370	48 218	49 862	50 035
- Articulated 35°	lb	114,105	111,945	112,027	110,848	113,252	106,302	109,927	110,309
Tipping Load at Operating Weight	kg	45 909	44 805	43 974	44 837	45 020	44 051	45 466	44 369
- Bucket Level Ground	lb	101,212	98,130	96,946	98,848	99,252	97,116	100,235	97,817
Tipping Load with Squash at	kg	56 256	55 594	55 273	54 786	55 850	52 723	54 370	54 440
Operating Weight – Straight	lb	124,022	121,760	121,857	120,783	123,128	116,234	119,865	120,019
Tipping Load with Squash at	kg	45 261	44 632	44 286	43 798	44 887	41 734	43 382	43 385
Operating Weight – Articulated 43°	lb	99,784	97,751	97,634	96,557	98,959	92,007	95,642	95,649
Tipping Load with Squash at	kg	46 605	45 972	45 629	45 140	46 227	43 076	44 725	44 736
Operating Weight – Articulated 40°	lb	102,746	100,685	100,594	99,517	101,913	94,967	98,602	98,626
Tipping Load with Squash at	kg	48 694	48 055	47 717	47 228	48 310	45 165	46 813	46 837
Operating Weight – Articulated 35°	lb	107,352	105,248	105,198	104,121	106,506	99,571	103,205	103,259
Tipping Load with Squash at Operating	kg	44 373	43 315	42 512	43 291	43 528	42 423	43 850	42 793
Weight – Bucket Level Ground	lb	97,825	94,865	93,723	95,440	95,962	93,528	96,673	94,343
Lift Capacity - Bucket Level Ground	kg	47 125	46 348	45 716	45 909	46 561	44 460	46 053	45 263
	lb	103,893	101,508	100,786	101,213	102,649	98,017	101,530	99,787
Breakout Force – SAE Rated	kgf	57 975	55 521	53 785	57 351	55 673	58 884	59 721	56 836
	lbf	127,813				122,737	129,817	131,662	125,302
Operating Weight	kg	100 072	100 465	100 845	101 451	100 246	103 621	101 827	102 229
	lb	220,621	220,032	222,325	223,661	221,004	228,445	224,490	225,376
Weight Distribution at SAE Carry	kg	55 566	56 333	56 995	58 018	55 921	61 690	58 690	59 078
- Front	lb	122,501	123,376	125,652	127,908	123,285	136,004	129,389	130,244
Weight Distribution at SAE Carry  – Rear	kg lb	44 506 98,120	44 132 96,656	43 850 96,673	43 433 95,753	44 325 97,719	41 930	43 137 95,100	43 151 95,132
					<del> </del>		92,441	-	<b>.</b>
Loaded Machine Weight	kg lb	119 123 262,621	119 516 261,756	119 896 264,325	120 502 265,661	119 297 263,005	122 672 270,445	120 878 266,490	102 229 225,376
Weight Distribution at SAE Carry	kg	88 743	89 571	90 249	91 199	89 157	94 869	91 863	59 078
- Front	lb	195,644	196,172	198,965	201,060	196,557	209,151	202,523	130,244
Weight Distribution at SAE Carry	kg	30 380	29 945	29 647	29 303	30 140	27 803	29 015	43 151
- Rear	lb	66,977	65,584	65,360	64,601	66,447	61,294	63,967	95,132
Shipping Weight	kg								
Sbbgo.g.it	lb	_	_	_	_	_	_		_
		I	I	I	I	I	I	I	I

# **Standard Equipment**

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

### **POWER TRAIN**

- Air-to-Air After Cooler (ATAAC)
- Axle oil coolers (front and rear)
- Brakes, full hydraulic, enclosed, wet multiple disc service brakes and dry parking/secondary brake
- Case drain filters
- · Demand fan
- Driveline, electro-hydraulic parking brake
- Electric fuel priming pump
- Engine Cat C32 ACERT
- Ground level engine shutdown
- · Ground level fast fill fuel
- · Ground level transmission lockout
- · Ground level starter lockout
- Precleaner, engine air intake
- Radiator, Aluminum Modular (AMR)
- Starting aid, ether, automatic
- · Throttle lock
- Transmission, 533 mm (21 in) planetary powershift with 3F/3R with electronic control

### **ELECTRICAL**

- · Alarm, back-up
- Alternator, 150-amp
- Batteries, low maintenance
- Converter, 10-amp, 24V to 12V
- Deutsch and amp seal terminal connectors
- Ground level electrical disconnect
- Ground level starting receptacle for emergency start
- Light, warning strobe
- Lights, front and rear, access stairway, turn signals/hazard lights
- Starter, electric (heavy duty)
- Starting and charging system, 24V, ECM diagnostic connector

### **OPERATOR ENVIRONMENT**

- Air conditioner and heater with automatic temperature control
- Cab, sound suppressed, pressurized, rollover protective structure (ROPS/FOPS), radio ready for (entertainment) includes antenna, speakers, and a 12V converter (24-volt, 10-amp) for use with laptop/cell phone use
- · Camera, rear vision
- Cigar lighter
- · Coat hook
- Electro-hydraulic tilt and lift controls
- · Horn, electric
- Implement and steering lockouts
- Light, dome (cab)
- Lunchbox and beverage holders
- Mirrors, rearview (externally mounted)
- Seat, Cat Comfort with air suspension
- Seat belt, 2-point, 76 mm (3 in), minder
- Steering and transmission lock lever
- STIC control system
- Tie-offs on ROPS
- · Tinted glass
- Trainer seat with 76 mm (3 in) wide lap belt
- Transmission gear indicator
- VIMS (Vital Info Management System):
- -3G with graphical information display
- -Cycle timer
- -External data port
- Integral Cat Production Measurement (Cat PM)
- Wet-arm wipers/washer (front, rear, and corners), intermittent front wipers

# **SAFETY AND SECURITY**

• Fire suppression ready

# OTHER STANDARD EQUIPMENT

- Automatic lubrication system
- Bumper service center
- Couplings, Cat O-ring face seals
- Doors, service access (locking)
- · Economy mode
- Emergency platform egress
- Fenders, steel (front and rear)
- Fuel, fast fill
- Grouped hydraulic pressure ports
- Guards, power train and crankcase
- Hitch, drawbar with pin
- Hoses, Cat XTTM and XT-ES
- · Hydraulic oil cooler
- Impeller clutch
- Implement and steering ecology drains
- · Mufflers, under hood
- Oil sampling valves
- Piston pump case drain filters
- Service center with ground level electrical and fluids service center
- · Sight gauges:
- -Steering oil level
- Implement oil level
- Transmission oil level
- -Coolant level
- Stairway, left and right rear access
- Starter lockout, bumper
- Steering, load sensing
- Tie-offs on ROPS
- Toe kicks
- Transmission lockout, bumper
- Vandalism protection caplocks
- Venturi stacks (2)

# **992K Standard Equipment**

# **Optional Equipment**

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

# **OPERATOR ENVIRONMENT**

- AM/FM/CD/MP3 radio
- AM/FM/CD/MP3 radio with Bluetooth and satellite ready
- Sun screen

# **STARTING AIDS**

- Engine coolant 120V heater
- Engine coolant 240V heater

# **MACHINE CONTROL AND GUIDANCE**

• Cat Terrain ready

# **MISCELLANEOUS ATTACHMENTS**

- Arctic antifreeze for protection to –50° C (–58° F)
- Diagnostic lines
- · Roading fenders
- · Wheel chocks

# **992K Mandatory Attachments**

# **Mandatory Attachments**

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

# **CAB**

- Basic cab standard glass, standard seat
- Deluxe cab rubber mounted glass, heated seat

### LIFT

- Standard
- High

### **ELECTRONICS**

• Messenger display software (select language group)

### MIRROR ARRANGEMENT

- · Mirror, heated
- · Mirror, standard

# **TORQUE CONVERTER**

- ICTC with housing and lock-up clutch
- Standard ICTC with housing

# **SUSPENSION SYSTEMS**

- Ride control
- No ride control

### **LIGHTS**

- · Halogen lights
- HID lights
- LED lights

# **INTEGRATED OBJECT DETECTION SYSTEM**

- · Rear vision camera
- Object detection (radar)

# **ACCESS SYSTEMS**

- · Standard access
- · Powered access

### **ENGINE ARRANGEMENTS**

- · Engine, standard
- Engine, standard, sound suppression
- Engine, brake
- Engine, brake, sound suppression

# **FUEL ARRANGEMENTS**

- Fuel arrangement, fast fill
- Fuel arrangement, fast fill, heated (fuel heater)

### **COOLING ARRANGEMENTS**

- High Ambient for ambient temperatures 55° C (131° F)
- Standard for ambient temperatures 43° C (109° F)

### STEERING AND FILTRATION SYSTEMS

- Secondary steering, deluxe filtration
- · Secondary steering, standard filtration
- Standard steering, deluxe filtration
- Standard steering, standard filtration

### TIRES

• Consult your Cat dealer for current options

### PRODUCT LINK

· Where required

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com** 

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