

995
Wheel Loader

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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995 Wheel Loader Specifications

Engine

Engine Model	Cat® 3516E	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V or U.S. EPA Tier 1 equivalent	
Rated Speed	1,600 rpm	
Engine Power – ISO 14396:2002	1377 kW	1,847 hp
Gross Power – SAE J1995:2014	1394 kW	1,870 hp
Net Power – SAE J1349:2011		
Standard Ambient	1297 kW	1,739 hp
High Ambient	1265 kW	1,696 hp
Bore	170 mm	6.7 in
Stroke	215 mm	8.5 in
Displacement	78.1 L	4,766 in³
Peak Torque @ 1,200 rpm – SAE J1995	11 591 N·m	8,549 lbf-ft
Torque Rise	39%	

- The power ratings apply when tested under the reference conditions for the specified standard.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and muffler.
- The gross power advertised is with the fan at maximum speed.

Operating Specifications

Operating Weight – Standard	246 651 kg	543 772 lb
Operating Weight – High Lift	248 421 kg	547 675 lb
Rated Payload – Standard		
Moderate to High Digging Resistance	45.3 tonnes	50 tons
Low to Moderate Digging Resistance*	54.4 tonnes	60 tons
Rated Payload – High Lift		
Moderate to High Digging Resistance	45.3 tonnes	50 tons
Low to Moderate Digging Resistance*	49.9 tonnes	55 tons
Bucket Capacity Range	17.2-43.6 m³	22.3-57 yd³
Cat Truck Match – Standard	785/789	
Cat Truck Match – High Lift	789/793/794	

*Please contact your Cat dealer to determine if your application is suitable for this increased rated payload.

Transmission

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

- Travel speeds based on 58/85-57 tires.

Hydraulic System – Lift/Tilt

Lift/Tilt System – Circuit	Positive Flow Control	
Lift/Tilt System – Pumps	Variable Displacement Piston	
Maximum Flow at 1,700 rpm Engine Speed	2047 L/min	541 gal/min
Relief Valve Setting – Lift/Tilt	34 500 kPa	5,004 psi
Cylinders, Double Acting		
Lift, Bore and Stroke	370 × 1713 mm	14.6 × 67.4 in
Tilt, Bore and Stroke	310 × 1086 mm	12.2 × 42.8 in
Pilot System	Open Loop and Pressure Reducing	

Hydraulic Cycle Time

Rack Back	4.9 seconds
Raise	12.6 seconds
Dump	3.1 seconds
Lower Float Down	4.2 seconds

Complete System Fill

Fuel Tank (standard)	3240 L	856 gal
Fuel Tank (with 24 hr attachment)	5350 L	1,414 gal
Cooling System	520 L	138 gal
Engine Crankcase	288 L	76 gal
Diesel Exhaust Fluid (DEF) (Tier 4 Final/Stage V)	519 L	137 gal
Transmission	416 L	110 gal
Differentials and Final Drives – Front	833 L	220 gal
Differentials and Final Drives – Rear	757 L	200 gal
Hydraulic Tank (implement and hydraulic fan)	1022 L	270 gal
Hydraulic Tank (steering and braking)	379 L	100 gal
Oil Renewal System (ORS)*	75.7 L	20 gal

*Not available on Tier 4 Final/Stage V machines. Not available in all regions.

Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	9°

Brakes

Brakes	ISO 3450:2011

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. The system contains 2.5 kg of refrigerant which has a CO_2 equivalent of 3.575 metric tonnes.

Cooling System

Ambient Capability Hydraulically Driven Demand Fan		
Standard	43° C	109.4° F
High (Tier 1 equivalent)	55° C	131° F
High (Tier 4 Final)	53° C	127.4° F

Sound Performance

	Standard	Suppression
Operator Sound Level (ISO 6396:2008)		
Tier 1 Equivalent	74 dB(A)	73 dB(A)
Tier 4 Final/EU Stage V	74 dB(A)	73 dB(A)
Machine Sound Level (ISO 6395:2008)	119 dB(A)	117 dB(A)

Sound Performance

- The declared sound levels listed above include the addition of both measurement uncertainty and uncertainty due to production variation. Typical measurement uncertainty for this type of machine is 2 dBA in accordance with ISO 4871.
- The measurement was conducted at 70% of the maximum engine cooling fan speed. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

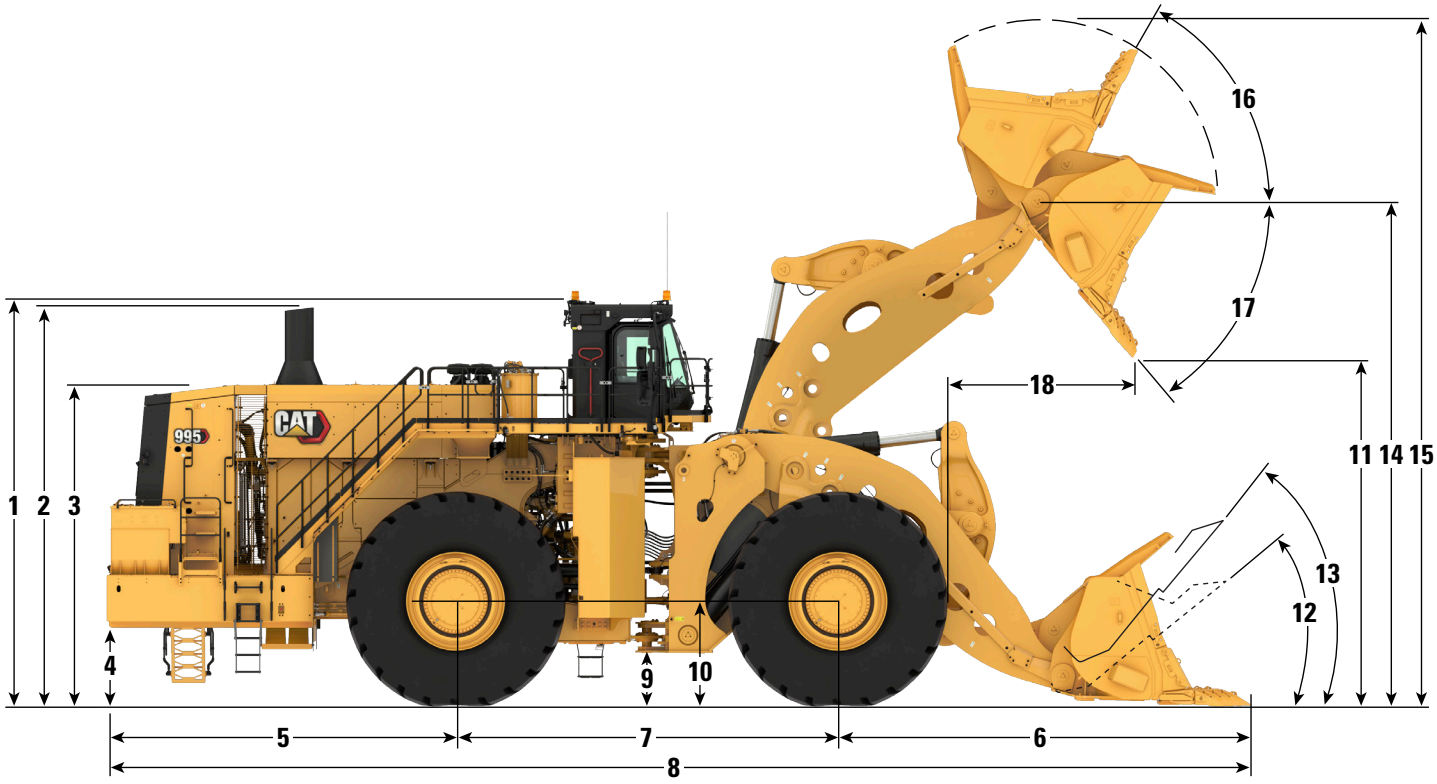
Hydraulic System – Steering

Steering System – Circuit	Pilot, Load Sensing	
Steering System – Pump	Piston, Variable Displacement	
Maximum Flow @ 1,700 rpm Engine Speed	880 L/min	233 gal/min
Relief Valve Setting – Steering	31 000 kPa	4,496 psi
Total Steering Angle	80 degrees	
Steering Cycle Time (low idle)	7.6 seconds	
Steering Cycle Time (high idle)	4.3 seconds	

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Dimensions

All dimensions are approximate.



		Standard Lift		High Lift	
1	Ground to Top of Rollover Protective Structure (ROPS)	7119 mm	23.4 ft	7119 mm	23.4 ft
2	Ground to Top of Exhaust Stacks	7067 mm	23.2 ft	7067 mm	23.2 ft
3	Ground to Top of Hood	5682 mm	18.6 ft	5682 mm	18.6 ft
4	Ground to Bumper Clearance	1355 mm	4.4 ft	1355 mm	4.4 ft
5	Rear Axle Center Line to Bumper	6205 mm	20.4 ft	6205 mm	20.4 ft
6	Front Axle Center Line to Bucket Tip	6688 mm	21.9 ft	7383 mm	24.2 ft
7	Wheel Base	6800 mm	22.3 ft	6800 mm	22.3 ft
8	Maximum Overall Length	19 693 mm	64.6 ft	20 388 mm	66.9 ft
9	Ground to Lower Hitch Clearance	898 mm	2.9 ft	898 mm	2.9 ft
10	Ground to Center of Axles	1830 mm	6.0 ft	1830 mm	6.0 ft
11	Clearance at Maximum Lift, at 45° Dump	6039 mm	19.8 ft	6896 mm	22.6 ft
12	Rack Back Angle at Ground Level	39.7 degrees		45.0 degrees	
13	Rack Back Angle at Carry	47.7 degrees		53.5 degrees	
14	B-Pin Height at Maximum Lift	8800 mm	28.8 ft	9657 mm	31.6 ft
15	Maximum Overall Height, Bucket Raised	11 966 mm	39.3 ft	12 823 mm	42.1 ft
16	Rack Angle at Maximum Lift	59.5 degrees		59.4 degrees	
17	Dump Angle at Maximum Lift	–50.0 degrees		–50.0 degrees	
18	Reach at Maximum Lift, at 45° Dump	2946 mm	9.6 ft	2884 mm	9.4 ft
	Tread Width	4300 mm	14.1 ft	4300 mm	14.1 ft
	Width Over Tires (with bulge)	5758 mm	18.8 ft	5760 mm	18.8 ft

Note: Assumes loaded 58/85-57 tires, tires at a static loaded radius of 1830 mm (6 ft), 596-5330 26 m^3 (34 yd^3) bucket, 431-0064 HD tips.

Bucket Selection Guide

When sizing the bucket, it is important to consider the Maximum Target Payload.

Large Wheel Loader Payload Policy: The Maximum Target Payload must be less than the Maximum Target Swung Load minus the Bucket Weight. The Maximum Target Swung Load is the maximum combined weight of the bucket and target payload.

"Example Bucket Weight" includes for 21.4-27.5 m^3 (28-36 yd^3) bucket, 431-0064 Advansys™ 220 HD tips, 375-1666 CapSure™ shrouds, 356-6438 sidebar protectors, and 479-7661 bolt-on cutting edges; for 29.1 m^3 (38 yd^3) bucket the same as above except with the mechanically attached adapter system; for 39.8-43.6 m^3 (52-57 yd^3) coal buckets, 431-0069 Advansys 220 coal tips and 356-6438 sidebar protectors.

If a bucket weight other than the weight specified in the table below is chosen, the bucket size can be evaluated using the following equations:

Maximum Target Payload = Maximum Target Swung Load – Bucket Weight

Maximum Target Density = (Maximum Target Swung Load – Bucket Weight)/(Bucket Volume x Fill Factor)

The rated capacity of the tires should always be considered.

Moderate to High Digging Resistance

Standard Lift: Rated Payload 45.4 tonnes (50 tons), Maximum Target Swung Load 75.9 tonnes (83.7 tons)

Bucket Volume		Example Bucket Weight		Maximum Target Payload at Example Bucket Weight		Maximum Target Density** at Example Bucket Weight	
m^3	yd^3	kg	lb	tonnes	tons	kg/m^3	lb/yd^3
21.4	28	23 205	51,144	52.7	58.1	2516	4,241
22.9	30	23 816	52,490	52.1	57.4	2322	3,914
24.5	32	24 352	53,672	51.6	56.9	2155	3,632
26.0	34	25 238	55,625	50.7	55.9	1994	3,361
27.5	36	26 389	58,161	49.5	54.6	1841	3,104
29.1	38	26 911	59,312	49.0	54.0	1727	2,910
39.8	52	23 959	52,806	52.0	57.3	1336	2,252
43.6	57	26 972	59,446	49.0	54.0	1150	1,938

High Lift: Rated Payload 45.4 tonnes (50 tons), Maximum Target Swung Load 75.9 tonnes (83.7 tons)

Bucket Volume		Example Bucket Weight		Maximum Target Payload at Example Bucket Weight		Maximum Target Density** at Example Bucket Weight	
m^3	yd^3	kg	lb	tonnes	tons	kg/m^3	lb/yd^3
21.4	28	23 205	51,144	52.7	58.1	2516	4,241
22.9	30	23 816	52,490	52.1	57.4	2322	3,914
24.5	32	24 352	53,672	51.6	56.9	2155	3,632
26.0	34	25 238	55,625	50.7	55.9	1994	3,361
27.5	36	26 389	58,161	49.5	54.6	1841	3,104
29.1	38	26 911	59,312	49.0	54.0	1727	2,910
39.8	52	23 959	52,806	52.0	57.3	1336	2,252
43.6	57	26 972	59,446	49.0	54.0	1150	1,938

***At 100% fill factor.*

995 Wheel Loader Specifications

Low to Moderate Digging Resistance*

Standard Lift: Rated Payload 54.4 tonnes (60 tons), Maximum Target Swung Load 85.2 tonnes (93.9 tons)

Bucket Volume		Example Bucket Weight		Maximum Target Payload at Example Bucket Weight		Maximum Target Density** at Example Bucket Weight	
m^3	yd^3	kg	lb	tonnes	tons	kg/m^3	lb/yd^3
21.4	28	23 205	51,144	62.0	68.3	2557	4,309
22.9	30	23 816	52,490	61.4	67.7	2359	3,977
24.5	32	24 352	53,672	60.8	67.1	2190	3,692
26.0	34	25 238	55,625	60.0	66.1	2027	3,417
27.5	36	26 389	58,161	58.8	64.8	1873	3,157
29.1	38	26 911	59,312	58.3	64.2	1756	2,960
39.8	52	23 959	52,806	61.2	67.5	1358	2,288
43.6	57	26 972	59,446	58.2	64.2	1169	1,971

High Lift: Rated Payload 49.9 tonnes (55 tons), Maximum Target Swung Load 78.0 tonnes (85.9 tons)

Bucket Volume		Example Bucket Weight		Maximum Target Payload at Example Bucket Weight		Maximum Target Density** at Example Bucket Weight	
m^3	yd^3	kg	lb	tonnes	tons	kg/m^3	lb/yd^3
21.4	28	23 205	51,144	54.7	60.3	2557	4,309
22.9	30	23 816	52,490	54.1	59.7	2359	3,977
24.5	32	24 352	53,672	53.6	59.1	2190	3,692
26.0	34	25 238	55,625	52.7	58.1	2027	3,417
27.5	36	26 389	58,161	51.5	56.8	1873	3,157
29.1	38	26 911	59,312	51.0	56.2	1756	2,960
39.8	52	23 959	52,806	54.0	59.5	1358	2,288
43.6	57	26 972	59,446	51.0	56.2	1169	1,971

**Please contact your Cat dealer to determine if your application is suitable for this increased rated payload.*

***At 100% fill factor.*

Operating Specifications – Standard Lift

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		Rock				
Ground Engaging Tools		Teeth and Segment				
Cutting Edge Type		Spade				
Bucket Part No. (Group Level)		389-4420	389-4430	389-4440	389-4450	596-5330
Bucket Weight as Configured	kg	22 321	23 205	23 816	24 352	25 238
	lb	49,209	51,158	52,505	53,687	55,640
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000	100,000
Rated Capacity	m^3	19	21	23	25	26
	yd^3	25	28	30	32	34
Struck Capacity – ISO*	m^3	15	18	19	20	21
	yd^3	20	24	25	26	28
Heaped Capacity – ISO*	m^3	19	21	23	24	26
	yd^3	25	28	30	31	34
Bucket Width – Overall	mm	6240	6240	6240	6240	6240
	in	246	246	246	246	246
Clearance at 45° Dump (Tooth Tip)	mm	6356	6246	6175	6108	6039
	in	250	246	243	240	238
Reach at 45° Dump (Tooth Tip)	mm	2643	2752	2823	2890	2946
	in	104	108	111	114	116
Bucket Pin at Maximum Lift	mm	8800	8800	8800	8800	8800
	in	346	346	346	346	346
Horizontal Arm and Level Bucket Reach	mm	5585	5740	5840	5935	6023
	in	220	226	230	234	237
Digging Depth (Segment)	mm	222	222	222	222	231
	in	9	9	9	9	9
Overall Length – Bucket Level Ground	mm	19 248	19 403	19 503	19 598	19 693
	in	758	764	768	772	775
Front Axle to Bucket Tip Ground	mm	6243	6398	6498	6593	6688
	in	246	252	256	260	263
Overall Height	mm	11 551	11 698	11 781	11 884	11 966
	in	455	461	464	468	471
Turning Radius – Corner at SAE Carry	mm	13 728	13 772	13 802	13 828	13 860
	in	540	542	543	544	546
Reach at 45° Dump and 2.13 m (7 ft) Height (with Teeth)	mm	4351	4457	4524	4587	4639
	in	171	175	178	181	183
Rack Back Angle at SAE Carry	degree	48	48	48	48	48
Full Dump at Maximum Lift	degree	–50	–50	–50	–50	–50

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

(chart continued on next page)

Operating Specifications – Standard Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		HD Rock		Coal	
Ground Engaging Tools		Teeth and Segment		Teeth and Segment	
Cutting Edge Type		Spade		Straight	
Bucket Part No. (Group Level)		592-3680	574-8480	592-3720	577-1190
Bucket Weight as Configured	kg	26 389	28 216	23 959	26 972
	lb	58,178	62,206	52,820	59,463
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000
Rated Capacity	m^3	28	29	40	44
	yd^3	36	38	52	57
Struck Capacity – ISO*	m^3	23	24	33	36
	yd^3	30	31	43	47
Heaped Capacity – ISO*	m^3	28	29	40	44
	yd^3	37	38	52	58
Bucket Width – Overall	mm	6320	6448	6968	7708
	in	249	254	274	303
Clearance at 45° Dump (Tooth Tip)	mm	5973	5908	6327	6007
	in	235	233	249	236
Reach at 45° Dump (Tooth Tip)	mm	3025	3086	2731	2993
	in	119	122	108	118
Bucket Pin at Maximum Lift	mm	8800	8800	8800	8800
	in	346	346	346	346
Horizontal Arm and Level Bucket Reach	mm	6126	6215	5668	6079
	in	241	245	223	239
Digging Depth (Segment)	mm	220	226	224	211
	in	9	9	9	8
Overall Length – Bucket Level Ground	mm	19 788	19 882	19 332	19 734
	in	779	783	761	777
Front Axle to Bucket Tip Ground	mm	6783	6877	6327	6729
	in	267	271	249	265
Overall Height	mm	12 066	12 174	12 270	12 446
	in	475	479	483	490
Turning Radius – Corner at SAE Carry	mm	13 886	13 967	14 246	14 463
	in	547	550	561	569
Reach at 45° Dump and 2.13 m (7 ft) Height (with Teeth)	mm	4713	4768	4439	4683
	in	186	188	175	184
Rack Back Angle at SAE Carry	degree	48	48	48	48
Full Dump at Maximum Lift	degree	–50	–50	–50	–50

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

(chart continued on next page)

Operating Specifications – Standard Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		**Rock**				
Ground Engaging Tools		**Teeth and Segment**				
Cutting Edge Type		**Spade**				
Bucket Part No. (Group Level)		**389-4420**	**389-4430**	**389-4440**	**389-4450**	**596-5330**
Bucket Weight as Configured	kg	22 321	23 205	23 816	24 352	25 238
	lb	49,209	51,158	52,505	53,687	55,640
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000	100,000
Rated Capacity	m^3	19	21	23	25	26
	yd^3	25	28	30	32	34
Struck Capacity – ISO*	m^3	15	18	19	20	21
	yd^3	20	24	25	26	28
Heaped Capacity – ISO*	m^3	19	21	23	24	26
	yd^3	25	28	30	31	34
Tipping Load at Operating Weight – Straight	kg	163 378	161 737	160 624	159 628	158 071
	lb	360,187	356,569	354,114	351,919	348,486
Tipping Load at Operating Weight – Straight**	kg	153 782	152 079	150 927	149 893	148 429
	lb	339,030	335,277	332,737	330,457	327,228
Tipping Load at Operating Weight – Articulated 40°	kg	140 877	139 311	138 248	137 298	135 813
	lb	310,581	307,128	304,783	302,691	299,417
Tipping Load at Operating Weight – Articulated 40°**	kg	125 651	123 995	122 874	121 868	120 509
	lb	277,012	273,361	270,890	268,673	265,676
Tipping Load at Operating Weight – Bucket Level Ground	kg	138 668	134 085	131 211	128 584	125 771
	lb	305,710	295,607	289,271	283,479	277,277
Tipping Load at Operating Weight – Bucket Level Ground**	kg	129 000	124 899	122 314	119 949	117 393
	lb	284,397	275,355	269,656	264,442	258,807
Breakout Force – SAE Rated	kN	1486	1387	1329	1278	1232
	lbf	334,076	311,865	298,791	287,199	276,891
Operating Weight	kg	243 734	244 618	245 229	245 765	246 651
	lb	537,340	539,289	540,636	541,818	543,771
Weight Distribution at SAE Carry – Front	kg	126 999	128 623	129 745	130 737	132 330
	lb	279,985	283,566	286,039	288,225	291,738
Weight Distribution at SAE Carry – Rear	kg	116 735	115 994	115 484	115 028	114 321
	lb	257,355	255,723	254,597	253,593	252,034
Loaded Machine Weight	kg	289 093	289 977	290 588	291 124	292 010
	lb	637,340	639,288	640,635	641,817	643,770
Weight Distribution at SAE Carry – Front	kg	200 963	202 830	204 113	205 258	206 948
	lb	443,048	447,163	449,992	452,515	456,241
Weight Distribution at SAE Carry – Rear	kg	88 129	87 147	86 475	85 866	85 062
	lb	194,292	192,126	190,644	189,302	187,529

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

***With Tire Squash*

(chart continued on next page)

Operating Specifications – Standard Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		HD Rock		Coal	
Ground Engaging Tools		Teeth and Segment		Teeth and Segment	
Cutting Edge Type		Spade		Straight	
Bucket Part No. (Group Level)		592-3680	574-8480	592-3720	577-1190
Bucket Weight as Configured	kg	26 389	28 216	23 959	26 972
	lb	58,178	62,206	52,820	59,463
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000
Rated Capacity	m^3	28	29	40	44
	yd^3	36	38	52	57
Struck Capacity – ISO*	m^3	23	24	33	36
	yd^3	30	31	43	47
Heaped Capacity – ISO*	m^3	28	29	40	44
	yd^3	37	38	52	58
Tipping Load at Operating Weight – Straight	kg	156 686	154 170	159 646	158 675
	lb	345,433	339,886	351,958	349,818
Tipping Load at Operating Weight – Straight**	kg	146 956	144 413	149 534	148 317
	lb	323,983	318,376	329,665	326,983
Tipping Load at Operating Weight – Articulated 40°	kg	134 434	131 946	137 456	136 161
	lb	296,376	290,891	303,039	300,183
Tipping Load at Operating Weight – Articulated 40°**	kg	119 006	116 476	121 493	119 871
	lb	262,364	256,786	267,847	264,270
Tipping Load at Operating Weight – Bucket Level Ground	kg	122 902	120 011	126 118	124 501
	lb	270,953	264,578	278,041	274,477
Tipping Load at Operating Weight – Bucket Level Ground**	kg	114 729	111 978	117 816	116 044
	lb	252,934	246,869	259,739	255,833
Breakout Force – SAE Rated	kN	1180	1143	1221	1215
	lbf	265,307	257,024	274,583	273,248
Operating Weight	kg	247 802	249 629	245 372	248 385
	lb	546,309	550,336	540,951	547,594
Weight Distribution at SAE Carry – Front	kg	134 357	137 764	129 775	134 885
	lb	296,206	303,718	286,103	297,371
Weight Distribution at SAE Carry – Rear	kg	113 445	111 864	115 597	113 499
	lb	250,103	246,618	254,848	250,223
Loaded Machine Weight	kg	293 161	294 988	290 731	293 744
	lb	646,308	650,336	640,951	647,593
Weight Distribution at SAE Carry – Front	kg	209 074	212 620	204 965	209 587
	lb	460,928	468,746	451,870	462,059
Weight Distribution at SAE Carry – Rear	kg	84 087	82 368	85 766	84 157
	lb	185,380	181,589	189,081	185,534

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

***With Tire Squash.*

Operating Specifications – High Lift

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		ROCK				
Ground Engaging Tools		Teeth and Segment				
Cutting Edge Type		SPADE				
Bucket Part No. (Group Level)		389-4420	389-4430	389-4440	389-4450	596-5330
Bucket Weight as Configured	kg	22 321	23 205	23 816	24 352	25 238
	lb	49,209	51,158	52,505	53,687	55,640
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000	100,000
Rated Capacity	m^3	19	21	23	25	26
	yd^3	25	28	30	32	34
Struck Capacity – ISO*	m^3	15	18	19	20	21
	yd^3	20	24	25	26	28
Heaped Capacity – ISO*	m^3	19	21	23	24	26
	yd^3	25	28	30	31	34
Bucket Width – Overall	mm	6240	6240	6240	6240	6240
	in	246	246	246	246	246
Clearance at 45° Dump (Tooth Tip)	mm	7213	7103	7032	6965	6896
	in	284	280	277	274	272
Reach at 45° Dump (Tooth Tip)	mm	2580	2690	2760	2828	2884
	in	102	106	109	111	114
Bucket Pin at Maximum Lift	mm	9657	9657	9657	9657	9657
	in	380	380	380	380	380
Horizontal Arm and Level Bucket Reach	mm	6151	6306	6406	6501	6589
	in	242	248	252	256	259
Digging Depth (Segment)	mm	229	229	229	229	238
	in	9	9	9	9	9
Overall Length – Bucket Level Ground	mm	19 943	20 098	20 198	20 293	20 388
	in	785	791	795	799	803
Front Axle to Bucket Tip Ground	mm	6938	7093	7193	7288	7383
	in	273	279	283	287	291
Overall Height	mm	12 408	12 555	12 638	12 741	12 823
	in	489	494	498	502	505
Turning Radius – Corner at SAE Carry	mm	13 976	14 019	14 046	14 072	14 102
	in	550	552	553	554	555
Reach at 45° Dump and 2.13 m (7 ft) Height (with Teeth)	mm	4917	5023	5091	5154	5206
	in	194	198	200	203	205
Rack Back Angle at SAE Carry	degree	53	53	53	53	54
Full Dump at Maximum Lift	degree	–50	–50	–50	–50	–50

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

(chart continued on next page)

Operating Specifications – High Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		HD Rock		Coal	
Ground Engaging Tools		Teeth and Segment		Teeth and Segment	
Cutting Edge Type		Spade		Straight	
Bucket Part No. (Group Level)		592-3680	574-8480	592-3720	577-1190
Bucket Weight as Configured	kg	26 389	28 216	23 959	26 972
	lb	58,178	62,206	52,820	59,463
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000
Rated Capacity	m^3	28	29	40	44
	yd^3	36	38	52	57
Struck Capacity – ISO*	m^3	23	24	33	36
	yd^3	30	31	43	47
Heaped Capacity – ISO*	m^3	28	29	40	44
	yd^3	37	38	52	58
Bucket Width – Overall	mm	6320	6448	6968	7708
	in	249	254	274	303
Clearance at 45° Dump (Tooth Tip)	mm	6830	6765	7184	6864
	in	269	266	283	270
Reach at 45° Dump (Tooth Tip)	mm	2963	3024	2669	2931
	in	117	119	105	115
Bucket Pin at Maximum Lift	mm	9657	9657	9657	9657
	in	380	380	380	380
Horizontal Arm and Level Bucket Reach	mm	6692	6781	6234	6645
	in	263	267	245	262
Digging Depth (Segment)	mm	227	233	230	218
	in	9	9	9	9
Overall Length – Bucket Level Ground	mm	20 483	20 576	20 027	20 430
	in	806	810	788	804
Front Axle to Bucket Tip Ground	mm	7478	7571	7022	7425
	in	294	298	276	292
Overall Height	mm	12 923	13 031	13 127	13 303
	in	509	513	517	524
Turning Radius – Corner at SAE Carry	mm	14 126	14 204	14 477	14 694
	in	556	559	570	579
Reach at 45° Dump and 2.13 m (7 ft) Height (with Teeth)	mm	5280	5336	5005	5251
	in	208	210	197	207
Rack Back Angle at SAE Carry	degree	53	54	54	53
Full Dump at Maximum Lift	degree	–50	–50	–50	–50

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

(chart continued on next page)

Operating Specifications – High Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		**Rock**				
Ground Engaging Tools		**Teeth and Segment**				
Cutting Edge Type		**Spade**				
Bucket Part No. (Group Level)		**389-4420**	**389-4430**	**389-4440**	**389-4450**	**596-5330**
Bucket Weight as Configured	kg	22 321	23 205	23 816	24 352	25 238
	lb	49,209	51,158	52,505	53,687	55,640
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000	100,000
Rated Capacity	m^3	19	21	23	25	26
	yd^3	25	28	30	32	34
Struck Capacity – ISO*	m^3	15	18	19	20	21
	yd^3	20	24	25	26	28
Heaped Capacity – ISO*	m^3	19	21	23	24	26
	yd^3	25	28	30	31	34
Tipping Load at Operating Weight – Straight	kg	142 979	141 554	140 583	139 719	138 273
	lb	315,215	312,072	309,931	308,028	304,840
Tipping Load at Operating Weight – Straight**	kg	135 264	133 778	132 767	131 866	130 489
	lb	298,205	294,929	292,702	290,714	287,678
Tipping Load at Operating Weight – Articulated 40°	kg	122 709	121 333	120 396	119 564	118 179
	lb	270,526	267,494	265,428	263,593	260,540
Tipping Load at Operating Weight – Articulated 40°**	kg	110 011	108 545	107 549	106 659	105 370
	lb	242,532	239,300	237,104	235,143	232,302
Tipping Load at Operating Weight – Bucket Level Ground	kg	119 892	116 139	113 767	111 597	109 229
	lb	264,317	256,042	250,813	246,029	240,808
Tipping Load at Operating Weight – Bucket Level Ground**	kg	112 624	109 186	107 005	105 009	102 810
	lb	248,294	240,714	235,905	231,504	226,657
Breakout Force – SAE Rated	kN	1416	1322	1266	1217	1173
	lbf	318,429	297,152	284,624	273,514	263,619
Operating Weight	kg	245 504	246 388	246 999	247 535	248 421
	lb	541,243	543,191	544,538	545,720	547,673
Weight Distribution at SAE Carry – Front	kg	132 290	133 976	135 140	136 166	137 824
	lb	291,649	295,366	297,932	300,193	303,850
Weight Distribution at SAE Carry – Rear	kg	113 214	112 412	111 859	111 369	110 597
	lb	249,593	247,826	246,607	245,527	243,824
Loaded Machine Weight	kg	290 863	291 747	292 358	292 894	293 780
	lb	641,242	643,191	644,538	645,720	647,673
Weight Distribution at SAE Carry – Front	kg	210 180	212 049	213 336	214 477	216 244
	lb	463,366	467,487	470,324	472,841	476,735
Weight Distribution at SAE Carry – Rear	kg	80 683	79 698	79 022	78 416	77 536
	lb	177,876	175,704	174,214	172,878	170,938

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

***With Tire Squash.*

(chart continued on next page)

Operating Specifications – High Lift *(continued)*

For machines equipped with 58/85-57 tires at a static loaded radius of 1830 mm (6 ft).

Bucket Type		**HD Rock**		**Coal**	
Ground Engaging Tools		**Teeth and Segment**		**Teeth and Segment**	
Cutting Edge Type		**Spade**		**Straight**	
Bucket Part No. (Group Level)		**592-3680**	**574-8480**	**592-3720**	**577-1190**
Bucket Weight as Configured	kg	26 389	28 216	23 959	26 972
	lb	58,178	62,206	52,820	59,463
Bucket Load at Rated Capacity	kg	45 359	45 359	45 359	45 359
	lb	100,000	100,000	100,000	100,000
Rated Capacity	m^3	28	29	40	44
	yd^3	36	38	52	57
Struck Capacity – ISO*	m^3	23	24	33	36
	yd^3	30	31	43	47
Heaped Capacity – ISO*	m^3	28	29	40	44
	yd^3	37	38	52	58
Tipping Load at Operating Weight – Straight	kg	136 976	134 597	140 156	138 713
	lb	301,981	296,736	308,990	305,809
Tipping Load at Operating Weight – Straight**	kg	129 117	126 710	131 969	130 357
	lb	284,654	279,346	290,941	287,388
Tipping Load at Operating Weight – Articulated 40°	kg	116 878	114 516	120 079	118 373
	lb	257,672	252,465	264,729	260,968
Tipping Load at Operating Weight – Articulated 40°**	kg	103 961	101 554	106 687	104 748
	lb	229,194	223,888	235,205	230,930
Tipping Load at Operating Weight – Bucket Level Ground	kg	106 732	104 085	109 713	107 838
	lb	235,304	229,468	241,875	237,743
Tipping Load at Operating Weight – Bucket Level Ground**	kg	100 452	97 898	103 348	101 370
	lb	221,457	215,827	227,843	223,482
Breakout Force – SAE Rated	kN	1123	1087	1163	1156
	lbf	252,495	244,427	261,451	259,991
Operating Weight	kg	249 572	251 399	247 142	250 155
	lb	550,211	554,239	544,854	551,496
Weight Distribution at SAE Carry – Front	kg	139 944	143 484	135 103	140 471
	lb	308,523	316,328	297,850	309,685
Weight Distribution at SAE Carry – Rear	kg	109 628	107 915	112 039	109 684
	lb	241,688	237,911	247,004	241,811
Loaded Machine Weight	kg	294 931	296 758	292 501	295 514
	lb	650,210	654,238	644,853	651,496
Weight Distribution at SAE Carry – Front	kg	218 420	222 063	213 874	218 765
	lb	481,534	489,565	471,512	482,294
Weight Distribution at SAE Carry – Rear	kg	76 510	74 694	78 626	76 749
	lb	168,676	164,673	173,341	169,201

**Full compliance to ISO 14397-1:2007 Sections 1 through 6, which requires 2% verification between calculations and testing.*

***With Tire Squash.*

Standard and Optional Equipment

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

	Standard	Optional
POWERTRAIN		
Engine, 3516E High Displacement (HD) Mechanical Electronic Unit Injector (MEUI™-A), Air-to-Air Aftercooling (ATAAC) diesel, turbocharged/aftercooled	✓	
Engine prelube	✓	
Fuel priming pump (electric)	✓	
Ground-level engine shutoff	✓	
Engine air intake (above hood) precleaner	✓	
Aluminum Modular Radiator (AMR)	✓	
Automatic, ether starting aid	✓	
Electronic throttle lock	✓	
Impeller Clutch Torque Converter (ICTC) with Lock-Up Clutch and rimpull control system	✓	
Rimpull control system	✓	
Planetary powershift, 3F/3R electronic control transmission	✓	
Oil Renewal System (ORS)* (for increased time between oil changes)		✓
Delayed engine shutdown	✓	
Oil-cooled, multi-disc, service brakes	✓	
Electro-hydraulic parking brake	✓	
LINKAGE		
Standard lift	✓	
High lift		✓
ELECTRICAL		
Alternator	✓	
Batteries, low maintenance	✓	
10/15 amp, 24V to 12V converter	✓	
Disconnect switch to bumper	✓	
LED warning lights (pattern selectable)	✓	
LED lighting system (working lights, access and service platform lights, turn signals/hazard lights)	✓	
Emergency jump-start receptacle	✓	
Starter and transmission lockout in bumper	✓	
24V starting and charging system	✓	
Electric starters	✓	

*Not available in all regions.

	Standard	Optional
OPERATOR ENVIRONMENT		
Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment and two-way thigh support adjustment	✓	
Bonded glass, tinted	✓	
Rubber-mounted, high-impact resistant solar control glass		✓
Trainer seat	✓	
Trainer seat with suspension		✓
Dual-lever lift and tilt function controls	✓	
Joystick lift and tilt function controls		✓
Implement kickouts	✓	
Air conditioner	✓	
Cab pressure indicator	✓	
Graphical touchscreen information display conveys real-time operating information	✓	
Heater, defroster, auto temperature controls	✓	
Gauge instrumentation with configurable widgets: – Status indicators – Wheel rev counter – Simplified payload – Tire pressure monitoring system (optional) – Bucket angle – Coolant temperature – Hydraulic oil temperature – Fuel level – Power train oil temperature – Engine speed (tachometer) – Transmission gear – Ground speed – Engine hour meter	✓	

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
OPERATOR ENVIRONMENT *(continued)*		
Powered cab precleaner	✓	
Operator presence status	✓	
Starting/charging system malfunction	✓	
Electronic Operation and Maintenance Manual (OMM)	✓	
Operator controls help	✓	
Bluetooth®-enabled machine security		✓
Two USB charging ports	✓	
CB mounting, 12V/24V power and antenna	✓	
14-pin service port	✓	
12V power	✓	
Selectable application profiles	✓	
Entertainment radio mute	✓	
Push-To-Start (PTS)	✓	
Warning/indicator instrumentation	✓	
Keypad control with indicator lights	✓	
Dome light in cab	✓	
Lunchbox and beverage holders	✓	
Electro-hydraulic force feedback steering	✓	
Sun screen, pull down (front and rear)		✓
Vital Information Management System (VIMS™) with information display: external data port, cycle timer	✓	
AM/FM/AUX radio		✓
AM/FM/AUX/USB/BT/CD/SAT radio		✓
Coat hook	✓	

	Standard	Optional
SAFETY		
Ground-access ladders	✓	
Powered ground-access stairs		✓
Rear-vision camera	✓	
Cat Detect (Rear Object Detection)		✓
Front frame access with steps	✓	
Front walkway around cab	✓	
Pump bay access ladders with T-handle and platform	✓	
Tie-offs on ROPS and radiator guards	✓	
Steering frame lock	✓	
Wheel chocks		✓
Stairways on both sides of the machine	✓	
LED stairway and access lights	✓	
Toe kicks	✓	
Electric (field and shop) horns	✓	
Retractable seatbelt, 76 mm (3 in) wide	✓	
Trainer seat with lap belt, 76 mm (3 in) wide	✓	
Back-up alarm	✓	
Secondary steering	✓	
COLD WEATHER		
Cold-weather cooling fan bypass (recommended for temperatures below –29° C [–20° F])		✓
Heavy-duty starter (provides an additional electric starter motor and two additional batteries for a total of three starter motors and six batteries) (recommended for temperatures below 0° C [32° F])		✓
240V engine oil and coolant heating elements (recommended in conditions from –18° C to –30° C [0° F to –22° F])		✓
Fuel heater (heated by recirculation using engine heat and a heat exchanger) (recommended in conditions from –18° C to –30° C [0° F to –22° F])		✓
Heated mirrors (recommended for below-freezing temperatures)		✓

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
MACHINE CONTROL AND GUIDANCE		
Cat Payload with Overload Prevention		✓
MineStar™ Health ready MineStar GUIDE ready MineStar Edge ready	✓	
New Autodig Components: – Tire slip prevention – Lift stall prevention – Tire set		✓
Operator coaching		✓
FUEL TANK		
12 hour (3240 L/856 gal)	✓	
24 hour (5350 L/1,414 gal)		✓
COOLING		
Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])	✓	
High ambient package (recommended for site conditions that do not exceed 53° C [127° F])		✓
RIMS AND TIRES		
Rims – 1194 mm (47") (47 × 57) 152 mm (6") flange For use with 58/85-57 84PR L4 tires		✓
Rims – 1194 mm (47") (47 × 57) 127 mm (5") flange For use with 60/80 R57 L5R XMine D2 SR tires		✓
Tires – 58/85-57 84PR L4 (require 47" rims)		✓
SPARE RIMS		
1194 mm (47") 152 mm (44 × 57) (6") flange		✓
1194 mm (47") 127 mm (47 × 57) (5") flange		✓

	Standard	Optional
SERVICE		
Ground-level service center including: – Service center light – Implement and cooling fan oil level indicator – Steering and brake oil level indicator – Window washer solvent level indicator – Transmission oil level indicator – DEF level indicator (if equipped) – Fuel level indicator – Engine oil level indicator – Engine coolant level indicator – Automatic lubrication system grease tank level indicator – DEF purge indicator lamp – Transmission lockout and LED – Starter lockout and LED – Heavy-duty battery disconnect switch – Stairway light switch – Service lighting switch (if equipped) – Fuel shutoff engine shutdown switch – Engine oil fast-fill port – Transmission oil fast-fill port – Steering and brake hydraulic oil fast-fill port – Steering and brake hydraulic oil drain port – Oil renewal system fast-fill port (if equipped) – Engine coolant fast-fill port – DEF fill port (HRC only) – Implement and cooling fan hydraulic oil fast-fill port – Implement and cooling hydraulic oil drain port – Automatic lubrication system grease tank fill port – 24V jump-start receptacle – 240V jacket water and engine oil heater plug (if equipped) – 12V power port – VIMS key switch – 14-pin machine data port	✓	

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Standard and Optional Equipment *(continued)*

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

	Standard	Optional
SERVICE *(continued)*		
In-tank mounted cartridge-type case drain filters with in-line magnetic plugs on implement, cooling fan, brake and steering pumps	✓	
High-pressure screens on the output side of implement, cooling fan, brake and steering pumps	✓	
Pump efficiency monitoring	✓	
Automatic lubrication system greases the linkage, hitch, steering and axle trunnion bearings	✓	
Electronic pressure control of the automatic lubrication system eliminates pressure adjustment and monitors grease thickness for temperature compatibility	✓	
Rock guards on linkage grease lines	✓	
Cat O-ring face seal couplings	✓	
Lockable service access doors	✓	
Ecology drains for engine, radiator, hydraulic tank, steering and brake tank, brake cooling tank and axles	✓	
High-speed engine oil change system	✓	
Ground-level fast-fill fuel system	✓	
Transmission guard	✓	
Drawbar hitch with pin	✓	
Cat XT™ hoses	✓	
Left-side service center	✓	
Oil sampling valves	✓	
Automatic Autolube filling shutoff valve	✓	
Telematics and Cat Electronic Technician service port in bumper	✓	
Air filter remaining useful life sensor	✓	

	Standard	Optional
SERVICE *(continued)*		
Premixed 50% concentration of extended-life coolant with freeze protection to –34° C (–29° F)	✓	
Rear access to cab and service platform	✓	
Load-sensing steering	✓	
Supplemental steering system	✓	
Vandalism protection caplocks	✓	
Cooling cleanout service package	✓	
VIMS download and Cat Electronic Technician service port in bumper	✓	
Product Link™ satellite		✓
Product Link cellular		✓
Product Link (dual mode – satellite/cellular)		✓
Service lights (engine bay, service center)	✓	
Additional service lights (pump bay, front frame and bumper)		✓
Electro-hydraulic (EH) steering eliminates need for neutralizer adjustment	✓	
EFFICIENCY		
On demand throttle, High Power (HP) Plus, and Enhanced ECO Modes	✓	
Variable displacement implement pumps	✓	
Variable displacement load sensing steering	✓	
Variable displacement cooling fan pump	✓	
Torque converter lock-up clutch	✓	
SOUND		
Sound-suppression package		✓

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Replaces AEXQ3526-02
Build Number: 12A
(Global)