

323 GX Hydraulic Excavator

Technical Specifications

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

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Engine		
Engine Model	Cat® C4.4	
Net Power		
ISO 9249	123.7 kW	166 hp
ISO 9249 (DIN)	168 hp (met	ric)
Engine Power		
ISO 14396	129.4 kW	174 hp
ISO 14396 (DIN)	176 hp (met	ric)
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾)

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,200 rpm.
- (1) Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

- *Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Swing Mechanism		
Swing Speed	11.2 rpm	
Maximum Swing Torque	82 kN·m	60,333 lbf-ft

Weights		
Operating Weight	21 800 kg	48,100 lb

• Reach boom, R2.9B1 (9'6") stick, General Duty (GD) 1.19 m³ (1.56 yd³) bucket, 600 mm (24") triple grouser shoes and 4250 kg (9,370 lb) counterweight.

Track		
Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	790 mm	31 in
Number of Shoes (each side)	47	
Number of Track Rollers (each side)	7	
Number of Carrier Rollers (each side)	2	
Drive		
Gradeability	35° +/-70%	

DIIVE		
Gradeability	35° +/-70%	
Maximum Travel Speed	5.7 km/h	3.6 mph
Maximum Drawbar Pull	200 kN	44,917 lbf
Hydraulic System		
Main System Maximum Flow	120 I /min	113 gal/min

429 L/min (214.5 × 2 pumps)	113 gal/min (56.7 × 2 pumps)
35 000 kPa	5,075 psi
35 000 kPa	5,075 psi
27 500 kPa	3,988 psi
120 mm	5 in
1260 mm	50 in
140 mm	6 in
1504 mm	59 in
120 mm	5 in
1104 mm	43 in
	(214.5 × 2 pumps) 35 000 kPa 35 000 kPa 27 500 kPa 120 mm 1260 mm 140 mm 1504 mm

Service Refill Capacities		
Fuel Tank Capacity	390 L	103 gal
Cooling System	24.5 L	6.5 gal
Engine Oil	15 L	4 gal
Swing Drive	5.5 L	1.5 gal
Final Drive (each)	4.5 L	1.2 gal
Hydraulic System (including tank)	218 L	57.6 gal
Hydraulic Tank	115 L	30.4 gal
Diesel Exhaust Fluid (DEF) Tank	26 L	6.9 gal

Standards	
Brakes	ISO 10265:2008
Rollover Protective Structure (ROPS) (optional)	ISO 12117-2 2008
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II

Sound Performance

ISO 6395:2008 (external): 103 dB(A)

ISO 6396:2008 (inside cab): 70 dB(A)

• Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/ windows open) for extended periods or in a noisy environment.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains $0.85~\rm kg$ of refrigerant, which has a $\rm CO_2$ equivalent of $1.216~\rm metric$ tonnes.

Operating Weights and Ground Pressures

	600 mm (24 in) Triple Grouser Shoes		790 mm (31 in) Triple Grouser Shoes	
Base Machine Configurations	Weight	Ground Pressure	Weight	Ground Pressure
Base Frame with Track Rollers and Carrier Rollers	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
4250 kg (9,370 lb) Counterweight + 4.25 m (13'11") Undercarriage Base Machine				
Reach Boom + R2.9B1 (9'6") Stick + 1.19 m ³ (1.56 yd ³) GD Bucket + HP tool control lines	21 800 (48,100)	47.8 (6.9)	22 300 (49,200)	37.1 (5.4)

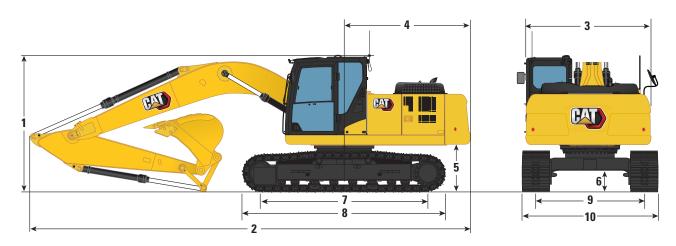
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

Major Component Weights

	kg	lb
Base Machine (with 4250 kg [9,370 lb] counterweight, upper frame, 4.25 m [13'11"] undercarriage with rollers and two boom cylinders – does not include boom, stick, bucket, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator).	14 970	32,990
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2700	5,960
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	3210	7,070
Two Boom Cylinders	360	800
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	380	840
Counterweight:		
4250 kg (9,370 lb) Counterweight	4250	9,370
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1690	3,720
HP Tool Control Lines for Reach Boom 5.7 m (18'8")	80	180
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R2.9B1 (9'6")	1067	2,350
HP Tool Control Lines for Reach Stick R2.9B1 (9'6")	50	110
Bucket (without linkage, with tips and side cutters):		
1.19 m³ (1.56 yd³) GD with Advansys™ Tips	890	1,970

Dimensions

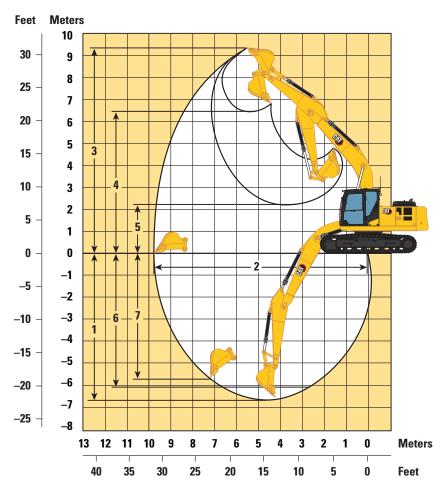
All dimensions are approximate and may vary depending on bucket selection.



*****		Boom 18'8")
Stick Option	Reach R2.9B1	
1 Machine Height:		
Top of Cab Height	2980 mm	9'10"
Top of OPG Height	3120 mm	10'3"
Handrail Height	3030 mm	9'11"
With Boom/Stick/Bucket Installed	3130 mm	10'3"
With Boom/Stick Installed	3060 mm	10'0"
With Boom Installed	2960 mm	9'9"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9520 mm	31'3"
With Boom/Stick Installed	9510 mm	31'2"
With Boom Installed	8500 mm	27'11"
3 Upperframe Width	2740 mm	9'0"
4 Tail Swing Radius	2830 mm	9'3"
5 Counterweight Clearance	1060 mm	3'6"
6 Ground Clearance	460 mm	1'6"
7 Track Length – Length to Center of Rollers	3450 mm	11'4"
8 Track Length – Crawler Overall Length	4250 mm	13'11"
9 Track Gauge	2380 mm	7'10"
10 Undercarriage Width:		
600 mm (24") Shoes	2980 mm	9'9"
790 mm (31") Shoes	3170 mm	10'5"
Bucket Type	Gl)
Bucket Capacity	1.19 m³	1.56 yd ³
Bucket Tip Radius	1572 mm	5'2"

Working Ranges

All dimensions are approximate and may vary depending on bucket selection.



Boom Option	Reach 5.7 m		
Stick Option	Reach R2.9B1		
1 Maximum Digging Depth	6710 mm	22'0"	
2 Maximum Reach at Ground Line	9860 mm	32'4"	
3 Maximum Cutting Height	9460 mm	31'1"	
4 Maximum Loading Height	6500 mm	21'4"	
5 Minimum Loading Height	2180 mm	7'2"	
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6490 mm	21'4"	
7 Maximum Vertical Wall Digging Depth	5770 mm	18'11"	
Minimum Working Equipment Radius	3650 mm	12'0"	
Bucket Digging Force (ISO)	141 kN	31,698 lbf	
Stick Digging Force (ISO)	107 kN	23,942 lbf	
Bucket Type	G	D	
Bucket Capacity	1.19 m³	1.56 yd ³	
Bucket Tip Radius	1572 mm	5'2"	

Reach Boom Lift Capacities - Counterweight: 4250 kg (9,370 lb) - without Bucket

	2.9 m (9'6") R2.9B1 5.7 m (18'8") 2380 mm (7'10")						mm (11'4") mm (13'11")							
5	€		ım/5'0"	3000 mm/10'0"		3000 mm/10'0" 4500 mm/15'0" 6000 mm/20'0" 7500 mm/25'0"								
,	<u>.</u>			Į,		Ę.		Ę.		P		Į.		mm ft/in
7500 mm 25'0"	kg Ib							*4550	*4550			*3900 *8.650	*3900 8.650	6160 19'9 "
6000 mm	kg							*4900	*4900			*3600	*3600	7290
20'0"	lb							*10,800	*10,800			*7,950	*7,950	23'8"
4500 mm	kg							*5400	5300	*5100	3750	*3550	3350	7990
15'0"	lb							*11,800	11,400	*11,150	8,000	*7,750	7,450	26'1"
3000 mm	kg					*7950	7700	*6250	5050	*5250	3650	*3600	3100	8350
10'0"	lb					*17,050	16,600	*13,500	10,900	*11,250	7,850	*7,950	6,800	27'4"
1500 mm	kg					*9600	7200	*7050	4850	5100	3550	*3850	3000	8440
5'0"	lb			*6250	*6250	*20,700 *10 500	15,550	*15,250	10,400	11,000	7,600	*8,450	6,550	27'8"
0 mm	kg Ib			*14.300	*14.300	* 22,750	6950 14,950	6900 14,850	4650 10,050	5000 10,800	3450 7,400	*4250 *9.350	3050 6,650	8250 27'0"
-1500 mm	kg	*6650	*6650	*10 800	*10 800	*10 600	6850	6850	4600	5000	3400	*4750	3250	7770
-5'0"	lb	*14,900	*14,900	*24.450	*24,450	*22.900	14,750	14,700	9,900	10,750	7,350	*10,500	7,200	25'5"
-3000 mm	kg	*11 450	*11 450	*14 050	13 350	*9900	6900	*6850	4600	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,,,,,	*5600	3850	6940
-10'0"	lb	*25,650	*25,650	*30,450	28,650	*21,450	14,900	*14,750	9,950			*12,450	8,500	22'7"
-4500 mm	kg			*11 200	*11 200	*8050	7100					*6100	5300	5580
-15'0"	lb			*23,950	*23,950	*17,100	15,350					*13,350	11,900	18'0"
		*					ISO 10567:	2007				ſĹ		

^{*} Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007.

They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities – Counterweight: 4250 kg (9,370 lb) – without Bucket

	2.9 m (9'6")							mm (11'4")						
5	5		ım/5'0"	3000 mm/10'0"		8000 mm/10'0" 4500 mm/15'0" 6000 mm/20'0" 7500 mm/25'0"								
	<u>.</u>			Į,		F.		F.				P		mm ft/in
7500 mm 25'0"	kg Ib							*4550	*4550			*3900 *8.650	*3900 *8,650	6160 19'9"
6000 mm	kg							*4900	*4900			*3600	*3600	7290
20'0"	lb							*10,800	*10,800			*7,950	*7,950	23'8"
4500 mm	kg							*5400	5400	*5100	3800	*3550	3450	7990
15'0"	lb							*11,800	11,600	*11,150	8,200	*7,750	7,600	26'1"
3000 mm	kg					*7950	7850	*6250	5150	*5350	3700	*3600	3150	8350
10'0"	lb					*17,050	16,900	*13,500	11,100	*11,500	8,000	*7,950	6,950	27'4"
1500 mm	kg					*9600	7350	*7050	4950	5200	3600	*3850	3050	8440
5'0"	lb			W	W	*20,700	15,850	*15,300	10,600	11,200	7,750	*8,450	6,700	27'8"
0 mm	kg			*6250	*6250	*10500	7100	7050	4750	5150	3550	*4250	3100	8250
0'0"	lb	*0050	*0050	*14,300	*14,300	*22,750	15,250	15,200	10,250	11,050	7,600	*9,350	6,800	27'0"
−1500 mm −5'0"	kg lb	*6650 *14.900	*6650 *14.900	*10 800 *24.450	*10 800 *24.450	*10 600 *22.950	7000 15,100	7000 15.000	4700 10,100	5100 11,000	3500 7.550	*4850 *10.700	3350 7.350	7770 25'5"
-3000 mm	_	*11 450	*11 450	*14 050	13 650	*9900	7050	*7000	4750	11,000	7,330	*5750	3950	6940
-3000 IIIIII - 10'0 "	kg Ib	*25.650	*25.650	* 30.450	29.250	* 21.450	15.200	*15.100	10.200			*12.700	8.700	22'7"
-4500 mm	kg	20,000	20,000	*11 200	*11 200	*8050	7250	10,100	10,200			*6100	5400	5580
-15'0"	lb			*23,950	*23,950	*17,100	15,700					*13,350	12,150	18'0"
	* LISO 10567:2007													

^{*}Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007.

They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Bucket Specifications and Compatibility

							Count	4250 kg (9,370 lb)			
		Width		Width		idth Capacity		Weight		Fill	Reach Boom
	Linkage	mm	in	m³	yd³	kg	lb	%	R2.9 m (9'6")		
Pin-On (No Quick Coupler)											
General Duty	В	1200	48	1.19	1.56	890	1,962	100	•		
Maximum load with pin-on (payload + bucket)								kg	3118		
								lb	6,874		

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Maximum Material Density:

● 1800 kg/m³ (3,000 lb/yd³)

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Attachments Offering Guide

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region. Allowed usage on machine less than 50% Match **PIN-ON ATTACHMENTS** Counterweight 4250 kg (9,370 lb) **Boom Type Reach Boom** Stick Length R2.9 m (9'6") Hydraulic Hammers H120 GC H120 GC Side Mount H120 GC S ✓ H120 S ✓ H130 S Compactors (Vibratory Plate) CVP110

323 GX Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional
BOOMS, STICKS AND LINKAGES		
5.7 m (18'8") Reach boom	✓	
2.9 m (9'6") Reach stick	✓	
Bucket linkage with lifting eye, B1 type	✓	
CAB		
Sound suppressed cab with viscous mounts	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Mechanical-suspension seat with head rest and arm rest	✓	
51 mm (2") orange seat belt	✓	
Auto bi-level air conditioner	✓	
Keyless push-to-start engine control	✓	
Fixed left-side console	✓	
1-button joysticks	✓	
3-button joysticks		✓
AM/FM Bluetooth® radio with USB/Aux ports	✓	
Speakers (mounted on roof)	✓	
24V DC outlet	✓	
Storage compartments	✓	
Cup holder	✓	
70/30 tempered glass windshield	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable steel hatch	✓	
LED dome light	✓	
Washable floor mat	✓	
CAT TECHNOLOGY		
VisionLink®	✓	
VisionLink Productivity		✓
Capability to Remote Flash Cat Product Link TM (telematics only)	✓	
ELECTRICAL SYSTEM		
Two 950 CCA maintenance-free batteries	✓	
Electrical disconnect switch	✓	
LED chassis and cab lights	✓	
LED right-side boom light		✓
LED left-side boom light	✓	

	Standard	Optional
ENGINE		
Cat® C4.4 double turbo diesel engine	✓	
Two selectable modes: Power, Smart	✓	
Up to 4500 m (14,764 ft) altitude capability with derate from 3000 m (9,842 ft)	✓	
52° C (125° F) high-ambient cooling capacity	✓	
–25° C (–13° F) cold start capability	✓	
Electric fuel priming pump	✓	
Direct drive fan	✓	
Two-stage fuel filtration system with water separator and indicator	✓	
Sealed double element air filter with pre-cleaner	✓	
HYDRAULIC SYSTEM		
Electronic main control valve, hammer ready	✓	
Back-to-back electronic pump	✓	
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
Hammer lines		✓
Hammer return filter		✓
High performance hydraulic return filter	✓	
Auto hammer stop	✓	
SAFETY AND SECURITY		
Anti-skid plating with countersunk bolts	✓	
OPG with matching lights		✓
Handrail and handhold	✓	
Lockable external tool/storage box	✓	
Ground-level secondary engine shutoff switch	✓	
Lockable disconnect switch	✓	
Signaling/warning horn	✓	
Swing alarm		✓
Hydraulic lockout lever	✓	
ROPS		✓
Right-hand-side mirror	✓	
Rearview camera		✓
Travel alarm	✓	

(continued on next page)

323 GX Standard and Optional Equipment

Standard and Optional Equipment (continued)

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

	Standard	Optional
SERVICE AND MAINTENANCE		
Grouped engine oil and fuel filters	✓	
Scheduled Oil Sampling (S·O·S SM) ports	✓	
Radiator screen		✓

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
600 mm (24") triple grouser track shoes		✓
790 mm (31") triple grouser track shoes		✓
Grease lubricated track link	✓	
Center track guiding guard	✓	
Bottom guards	✓	
Travel motor guards	✓	
OPG guard		✓
4250 kg (9,370 lb) counterweight	✓	
Tie-down points	✓	

323 GX Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

GUARDS

- 6 mm (0.24") standard swivel guard
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front

SERVICE PART

- Hammer floor pedal kit
- Grease gun holder

323 GX Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat C4.4 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
 - √ 20% biodiesel FAME (fatty acid methyl ester)*
 - √ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

- *Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430).
 The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
- Barium < 0.01%
- Cadmium < 0.01%
- Chromium < 0.01%
- Lead < 0.01%

Sound Performance

ISO 6395:2008 (external) 103 dB(A)

ISO 6396:2008 (inside cab) 70 dB(A)

 Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/ windows open) for extended periods or in a noisy environment.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Smart mode matches machine power to digging requirements automatically
 - Automatic Engine Control reduces engine speed when the machine is not under load to minimize fuel consumption
- Cut maintenance costs up to 20% with enhanced filters and extended service intervals
- The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval – 50% longer than previous filter designs

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

AEXQ3672 (10-2023) Build Number: 05E (Chile)

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

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