

330 GC

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

150 kW (201 hp)
30 900 kg (68,100 lb)
7260 mm (23.8 ft)



330 GC

HYDRAULIC EXCAVATOR

The Cat® 330 GC Excavator balances productivity with easy-to-use controls, a comfortable cab, reduced fuel consumption by up to 12%, and longer maintenance intervals that reduce maintenance costs up to 20% – all to give you a durable, low-cost per-hour excavator for your applications.

Not all features are available in all regions. Consult your Cat dealer for specific configurations available in your region.



UP TO 12% LESS FUEL CONSUMPTION

The precise combination of larger hydraulic pumps, an electronic main control valve, and electronically controlled cooling fans delivers top performance while burning less fuel.

CAB DESIGN FOR SAFETY

The ISO-certified Rollover Protective Structure (ROPS) cab is sound suppressed and the large windows provide all around visibility for a safer, quieter work environment.

UP TO 25% LOWER MAINTENANCE COSTS

With extended and more synchronized maintenance intervals, you get more done at a lower cost compared to the previous model.

LATEST FEATURES



- Cab Monitor Improvements
 1. Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
 2. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
 3. A notification center keeps important information visible to the operator, and displays messages without shrinking the camera view.
 4. Color coded notifications set critical messages apart from the rest.
 5. Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 07F

PERFORMANCE AND PRODUCTIVITY



- Use up to 12% less fuel than the 330F Excavator in similar applications.
- The C7.1 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards with an after-treatment system that requires no maintenance or downtime.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Valve priority puts hydraulic pressure and flow where you command it to go for fast light- to medium-load cycle times.
- Match the excavator to the job with power modes; let Smart mode automatically match engine and hydraulic power to digging conditions.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.



- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Don't let the temperature stop you from working. The excavator has a standard high-ambient temperature capability of 52° C (125° F) and cold start capability of -18° C (0° F). An optional -32° C (-25° F) cold start package is available.
- Auto warm up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Two levels of fuel filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The track guiding guard helps keep the excavator track aligned when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce risk of track damage.



DESIGNED FOR OPERATORS



- The cab has a wide seat that adjusts for operators of all sizes.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Standard automatic climate control keeps you at the right temperature all shift long.
- Advanced viscous mounts reduce cab vibration by up to 50% over previous excavator models.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth® technology to connect to personal devices.

SIMPLE TO OPERATE

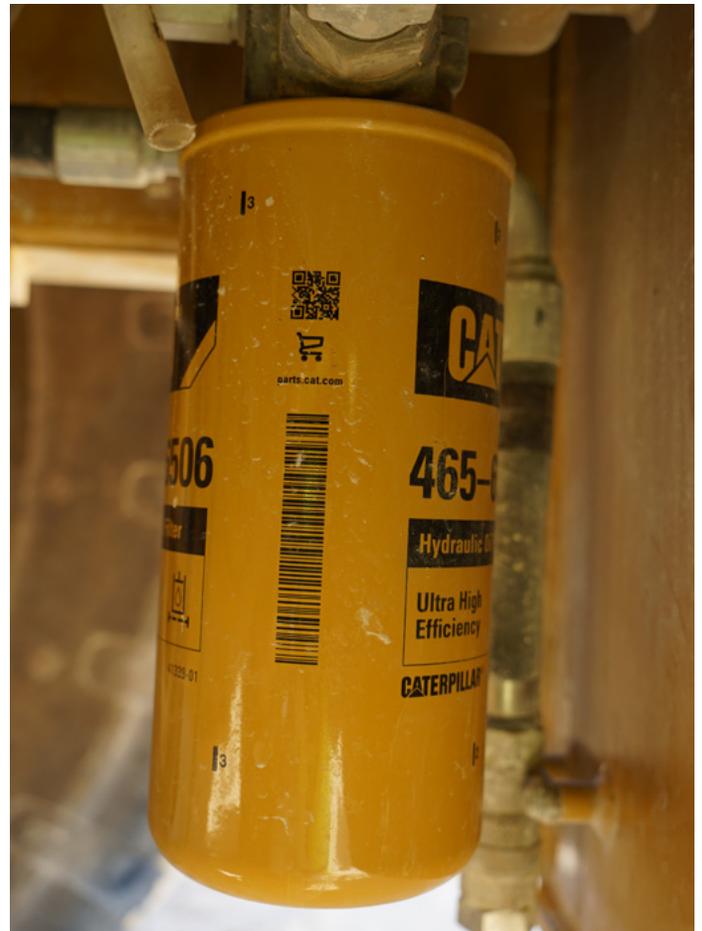
- Start the engine with a push button; use a Bluetooth® key fob, or the unique Operator ID function.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor or with the aid of the jog dial control.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of “how-to” videos.
- Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool’s service life.
- Find the tool you need – even if it’s hidden beneath overgrowth or debris. The optional Bluetooth reader can search for any work tool equipped with Cat asset tracking devices up to a range of 60 meters (200 feet).
- Make moving the excavator much easier with Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.



LOWER MAINTENANCE COSTS



- Expect up to 25% less maintenance cost than the 330F (savings calculated over 12,000 machine hours).
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the ground-level engine oil dipstick; fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- No required maintenance on the Cat Clean Emissions Module.
- Expect the latest air intake filter with pre-cleaner to last up to 1,000 hours – a 100% increase over the previous filter.
- The latest hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000-hour replacement interval – 50% longer than previous filter designs.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance, along with parts needed, so you don't experience any unnecessary downtime.
- Scheduled Oil Sampling (S-O-SSM) ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.



SAFELY HOME EVERY DAY

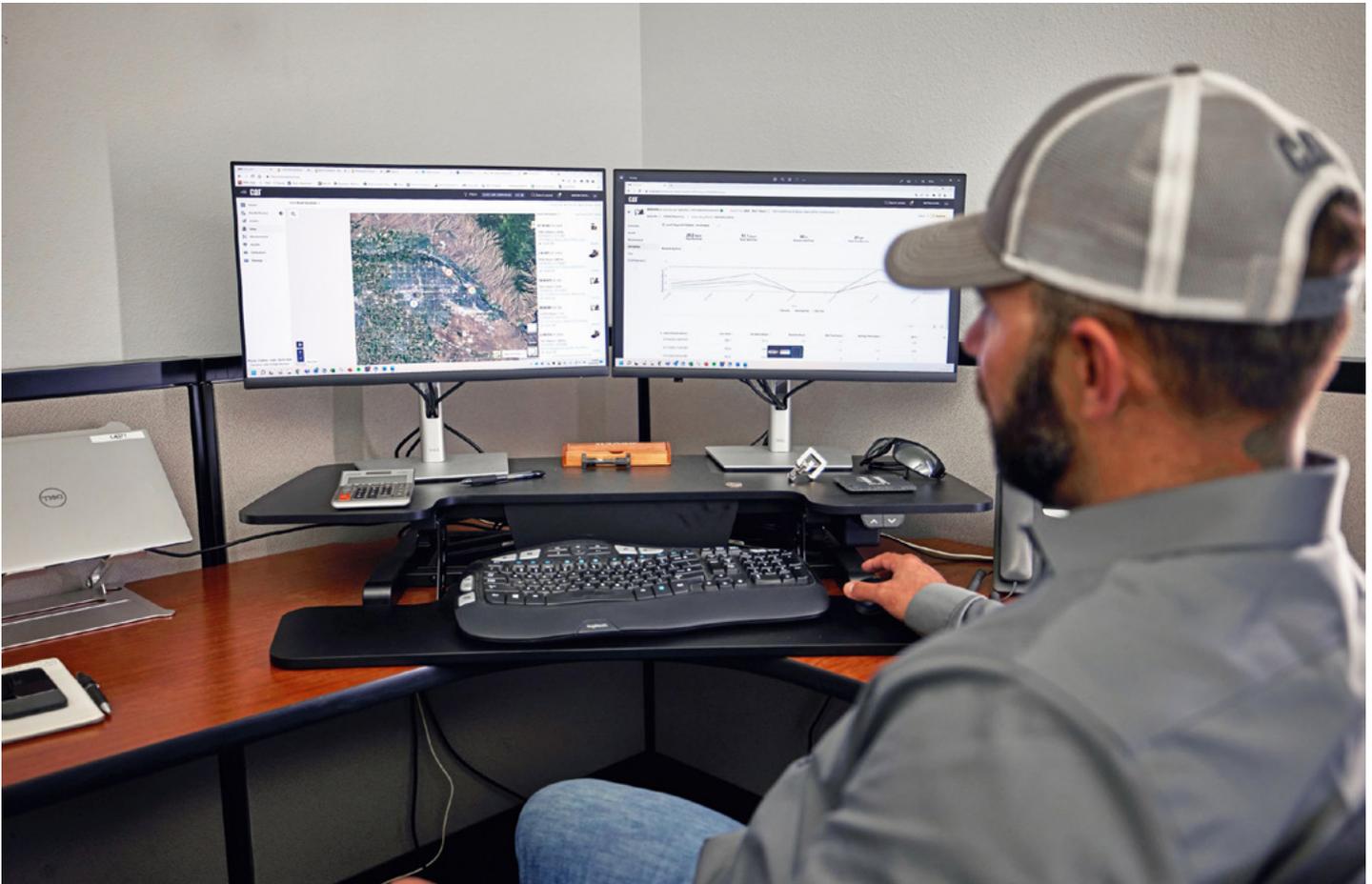
- Access 100% of daily maintenance points from ground level – no need for you to climb on top of the excavator.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design. A rearview camera and a right-side-view camera are standard.
- The latest right service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Ground-level shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.
- Make service work easier and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.



TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- VisionLink® provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacture.* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

*Data field availability can vary by equipment manufacturer.



- The Cat® C7.1 engine meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.
 - The 330 GC emits up to 9% less CO₂ than the previous 330F.*
 - 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)** or 100% renewable diesel, HVO (hydrogenated 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.
 - Cat VisionLink displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
 - Remote Flash minimizes downtime and maintenance time while keeping your asset running with maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer and updates can be deployed without a dealer technician needing to be onsite.
 - Auto Engine Speed Control helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
 - When engaged, one-touch idle helps operators conserve fuel and reduce greenhouse gas emissions by lowering engine speed when the machine is under no load and return to normal operating speed when desired.
 - Engine Idle Shutdown Timer reduces fuel burn, greenhouse gas emissions and unnecessary idle time by shutting down the machine after a pre-set idling period.
 - Cat S-O-S Services helps reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine operation and maintenance manual for more information.
 - Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
 - A well-trained operator is worth the investment. Skilled operators benefit your bottom line by maximizing productivity, avoiding costly downtime, and maintaining jobsite safety – which can help to improve fuel efficiency and reduce greenhouse gas emissions.
- *All comparisons to 330F. Productivity, fuel and CO₂ emissions vary by application. CO₂ emissions calculations based on a reference work cycle using 2.2 U.S. gallons per hour of #2 U.S. diesel fuel based. Applies IPCC2006 methodology using U.S. EPA Emissions Hub emission factors. Includes DEF (diesel exhaust fluid) related CO₂. Fuel measurements are at 15° C. Estimated average fuel consumption improvements are based on tests or Product Link™ data where available. Productivity improvements are based on test data.**
- **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.**



MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

MULTI-PROCESSORS



QUICK COUPLERS



RAKES



RIPPERS



ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The Cat app on your phone will locate the device automatically.



SECONDARY PULVERIZERS



SHEARS



THUMBS



VIBRATORY PLATE COMPACTORS



TECHNICAL SPECIFICATIONS

Engine

Net Power – ISO 9249	150 kW	201 hp
Net Power – ISO 9249 (DIN)	204 hp (metric)	
Engine Model	Cat C7.1	
Engine Power – ISO 14396	151 kW	202 hp
Engine Power – ISO 14396 (DIN)	205 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel Capability	Up to B20 ¹	
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V, and Japan 2014 emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat 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)* or 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.

Hydraulic System

Main System – Maximum Flow	560 L/min (148 gal/min)	
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	28 400 kPa	4,120 psi

Swing Mechanism

Swing Speed	11.5 r/min	
Maximum Swing Torque	105 kN-m	77,370 ft-lbf

Weights

Operating Weight	30 900 kg	68,100 lb
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Long undercarriage, Reach boom, R3.2 m (10'6") stick, Heavy Duty (HD) 1.54 m³ (2.01 yd³) bucket, 800 mm (31") triple grouser shoes and 6700 kg (14,770 lb) counterweight.

Service Refill Capacities

Fuel Tank Capacity	474 L	125.2 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive – Each	10 L	2.6 gal
Final Drive – Each	5.5 L	1.5 gal
Hydraulic System – Including Tank	310 L	81.9 gal
Hydraulic Tank	147 L	38.8 gal
DEF Tank	41 L	10.8 gal

Dimensions

Boom	Reach 6.15 m (20'2")	
Stick	Reach 3.2 m (10'6")	
Bucket	HD 1.54 m ³ (2.01 yd ³)	
Shipping Height – Top of Cab	3050 mm	10 ft
Handrail Height	3050 mm	10 ft
Shipping Length	10 420 mm	34.2 ft
Tail Swing Radius	3130 mm	10.3 ft
Counterweight Clearance	1110 mm	3.7 ft
Ground Clearance	490 mm	1.6 ft
Track Length	4860 mm	15.11 ft
Length to Center of Rollers	3990 mm	13.1 ft
Track Gauge	2590 mm	8.6 ft
Transport Width	3190 mm	10.5 ft

Working Ranges & Forces

Boom	Reach 6.15 m (20'2")	
Stick	Reach 3.2 m (10'6")	
Bucket	HD 1.54 m ³ (2.01 yd ³)	
Maximum Digging Depth	7260 mm	23.8 ft
Maximum Reach at Ground Level	10 690 mm	35.1 ft
Maximum Cutting Height	10 020 mm	32.9 ft
Maximum Loading Height	6930 mm	22.8 ft
Minimum Loading Height	2280 mm	7.5 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	7100 mm	23.3 ft
Maximum Vertical Wall Digging Depth	6030 mm	19.8 ft
Bucket Digging Force – ISO	179 kN	40,200 lbf
Stick Digging Force – ISO	126 kN	28,300 lbf

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).

Sustainability

Recyclability	97%
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STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Tie-down points on base frame	✓	
6700 kg (14,770 lb) counterweight (All regions except Japan)	✓	
5800 kg (12,790 lb) counterweight (Japan only)	✓	
Long narrow undercarriage		✓
600 mm (24") triple grouser shoes		✓
600 mm (24") HD triple grouser shoes		✓
700 mm (28") HD triple grouser shoes		✓
800 mm (31") triple grouser shoes		✓
900 mm (35") triple grouser shoes		✓
BOOMS AND STICKS		
6.15 m (20'2") Reach boom		✓
5.55 m (18'2") Mass boom		✓
3.75 m (12'4") Reach stick		✓
3.2 m (10'6") Reach stick		✓
2.65 m (8'8") Reach stick		✓
2.5 m (8'2") Mass stick		✓
CAT TECHNOLOGY		
VisionLink	✓	
Remote Flash	✓	
VisionLink Productivity		✓
CAB		
ROPS	✓	
Mechanical-suspension seat (All regions except Europe)	✓	
Air-suspension seat (Europe only)	✓	
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓	
ENGINE		
Cat C7.1 single turbo diesel engine	✓	
Two selectable power modes	✓	
Auto engine speed control	✓	
Auto engine idle shutdown	✓	
52° C (125° F) high-ambient cooling capacity with de-rate	✓	
Double element air filter with integrated pre-cleaner	✓	
Reversing electric cooling fans	✓	
-32° C (-25° F) cold start capability		✓
ELECTRICAL SYSTEM		
Two 1,000 CCA maintenance free batteries	✓	
Programmable time-delay LED working lights	✓	
LED chassis light, left-hand/right-hand boom lights, cab lights	✓	

	Standard	Optional
SERVICE AND MAINTENANCE		
S-O-S ports	✓	
Ground-level and platform-level engine oil dipsticks	✓	
Integrated vehicle health management system	✓	
Electric refueling pump with auto shutoff		✓
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Auto warm up	✓	
Auto two-speed travel	✓	
Boom and stick drift reduction valve	✓	
Boom and stick lowering check valves		✓
SmartBoom™ (Europe only)		✓
Hammer return filter circuit		✓
Tool Control (two pump, one/two way high-pressure flow)		✓
Medium-pressure circuit		✓
Quick coupler circuit		✓
SAFETY AND SECURITY		
Auto hammer stop	✓	
Rearview camera	✓	
Right-hand-sideview camera	✓	
Ground-level engine shutoff switch	✓	
Lockable disconnect switch	✓	
Right-hand handrail and handhold	✓	
Signaling/warning horn	✓	
Swing alarm		✓
Inspection lighting		✓



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基準適合

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www.cat.com www.caterpillar.com

AEXQ2458-05
Replaces AEXQ2458-04
Build Number: 07F
(Europe, N Am, Japan, Korea,
Turkey, Chile, Colombia)

