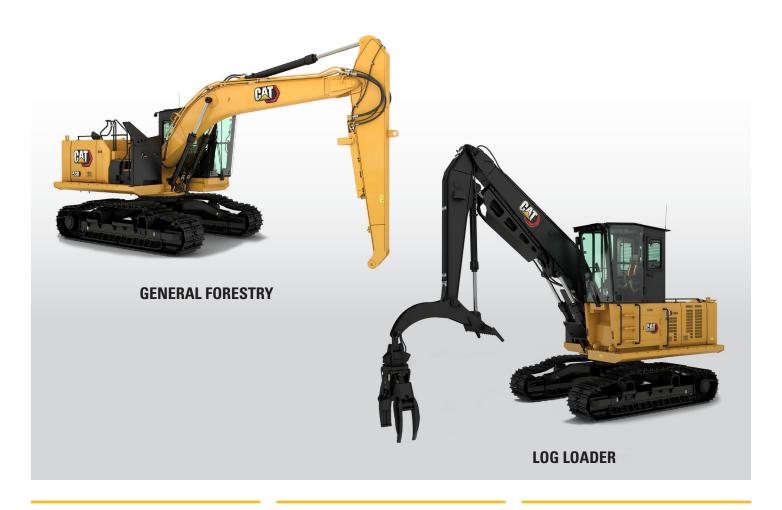


FM538 GF/ FM538 LL

FOREST MACHINE

The Cat® FM538 is the best choice in its size class for today's loggers. With its high-visibility forestry cab and factory logging configurations to meet your needs, the FM538 can make your work in the woods more productive and profitable.



DESIGNED FOR COMFORT AND EASE OF OPERATION

Available in a choice of rear or side entry, the Certified Forestry Rollover Protective Structure (ROPS) cab is sound-suppressed, sealed, and has an exceptional, unobstructed view of the task at hand.

BOOSTS PRODUCTION

Moves heavy logs confidently with greater swing torque. Heavy lift mode increases pressure for an additional boost for bigger timber until the task is done. More travel speed and a taller undercarriage get you up, down, and over stumps faster.

SAVES TIME AND MONEY

Experience increased uptime and reduced costs with longer-life fuel and hydraulic oil filters. Cat fuel filters have double the life of the previous filters, and the hydraulic oil return filter provides longer service life.

LATEST FEATURES

Machine Setup Simplification

At the touch of fingertips and navigating user-friendly icons, the
latest operator oriented User Interface (UI) maximizes uptime and
gets crews to work without delay. From re-ordering work tool lists
to creating new work tool combinations as needed, operators can
quickly set up machines and easily access information.

Foot Pedal Swing Control Kit

• The FM538 offers powerful, reliable performance optimized for challenging forestry tasks, and now, operators can enhance productivity and ease of operation with the optional Foot Pedal Swing Control Kit. This attachment integrates seamlessly with Caterpillar customizable joystick pattern software, enabling operators to personalize controls based on their preferences or job requirements. With the kit's two auxiliary pedals, operators can control the upper rotation of the machine using their feet, providing knuckleboom loader style of operation. The Foot Pedal Swing Control Kit is ideal for those looking to maximize control and efficiency in demanding forestry environments.

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

A Legendary Legacy that Leads

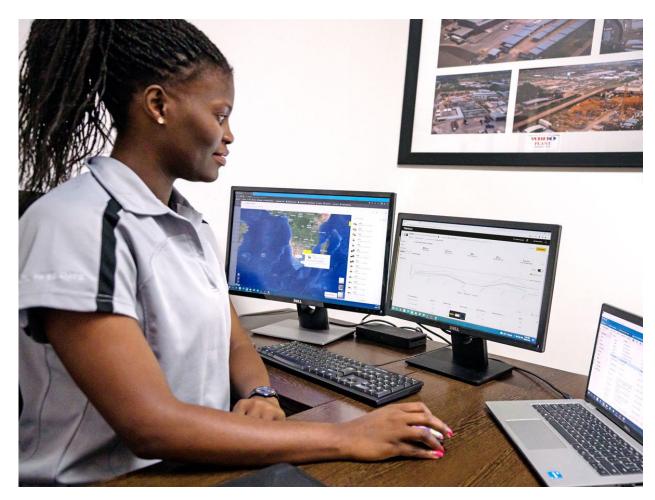
• Founded in 1925, Caterpillar established the standard for tractors and construction equipment from the outset. Over the years, the company's leaders have gained a great deal of knowledge about what works and what doesn't. Caterpillar has grown alongside its customers, developing new products for hardworking individuals who want to push the limits. With that history comes innovation, change, creation, and learning. Caterpillar has partnerships across multiple industries and companies, continually developing and refining its understanding of how equipment should operate. Our commitment to designing and building the world's best equipment is evident in every single product.

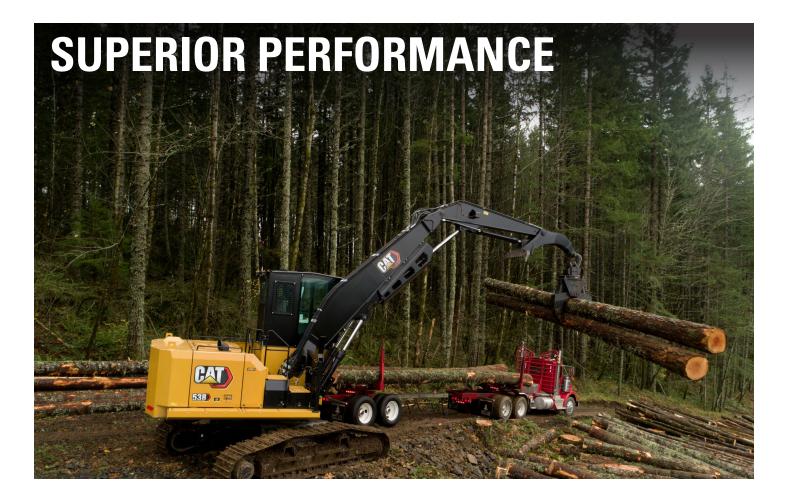


TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- The latest operator oriented User Interface (UI) has been designed to maximize uptime by allowing operators to easily re-order work tool lists and quickly create new work tool combinations. It also eliminates the need to measure up again when changing Cat work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.
- 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.
- Cat Inspect is a mobile application that allows you to easily perform
 digital preventative maintenance (PM) checks, inspections, and
 daily walkarounds. Inspections can easily be integrated with other
 Cat data systems like VisionLink so you can keep a close eye on
 your fleet.
- Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help resolve issues quickly and with less downtime.

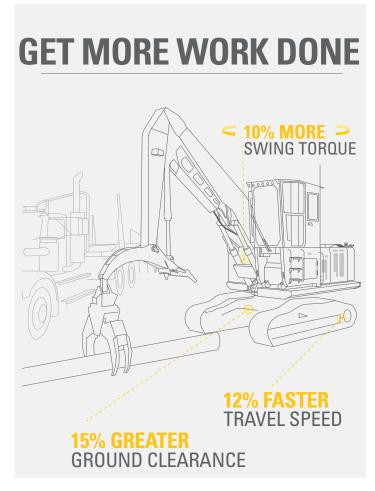
- Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.
- The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The work tool recognition** feature automatically adjusts machine settings based on the selected tool.
- *Data field availability can vary by equipment manufacturer.
 **Recognition feature available on select excavator models.
 Consult your Cat dealer for details.





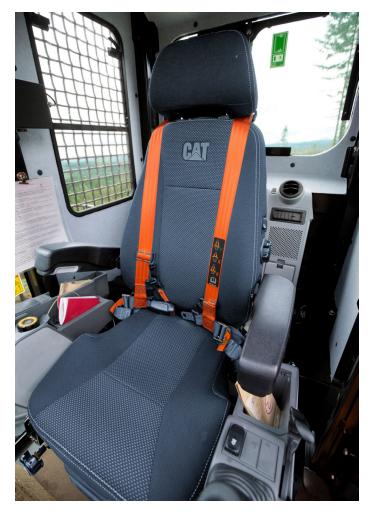
- The Cat C7.1 engine is fuel efficient and can run on biodiesel and other renewable fuels.
- Smart mode helps reduce fuel consumption by automatically matching engine and hydraulic power to working conditions.
- Pick and place logs with precision and power with the electrohydraulic control system.
- Heavy lift mode with more swing torque helps you confidently move big logs.
- Get to work faster with up to a 12% increase in travel speed.*
- Auxiliary hydraulic options let you use Cat grapples and various other attachments.
- Work in extreme environments with a standard high-ambient capability of 52° C (126° F) and cold start capability of -32° C (-25° F).

*All percentages are compared to the 2020 model year 538.



UNMATCHED OPERATOR COMFORT

- Operators can choose the rear or side entry cab with more space and a tilt-up console.
- The dual HVAC system keeps operators comfortable in cold and warm weather.
- A wider heated and cooled air-suspension seat makes year-round work more pleasant.
- All controls are within easy reach to reduce twisting and turning and keep you focused on the work area.
- Cab risers 165 mm (6.5") fixed or 1219 mm (48") hydraulic tilt are available to meet your work needs.
- Stow your gear with in-cab storage beneath, behind the seat, and in the consoles.
- Use the standard radio's USB ports and Bluetooth® technology to connect personal devices and make hands-free calls.





SIMPLE OPERATION



- Cat continues to improve user interface functionality for operators
 of all skill levels. The touchscreen monitor is an easy-to-use operating
 tool that presents the jobsite dashboard with an intuitive format.
- The Cat PL161 attachment locator is a Bluetooth device designed to let users know where their attachments are across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The PL161 integrates easily into VisionLink for full fleet management of machines and attachments from one smartphone or tablet dashboard to view location and tracking details.
- The keyless push-button engine start adds security by using operator ID codes to limit and track machine access. Codes can be entered manually or via an optional Bluetooth key fob.
- Navigate quickly on the standard high-resolution 254 mm (10 in) touchscreen monitor.
- Make moving the excavator much easier with optional Cat Stick Steer. Push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.
- Not sure how a function works or how to maintain the machine?
 Always have the operator's manual at your fingertips in the touchscreen monitor.
- Optional auxiliary relay powers on and turns off CB radios and other attachments without you taking your hands off the joysticks.



VERSATILE CONFIGURATIONS

General Forestry

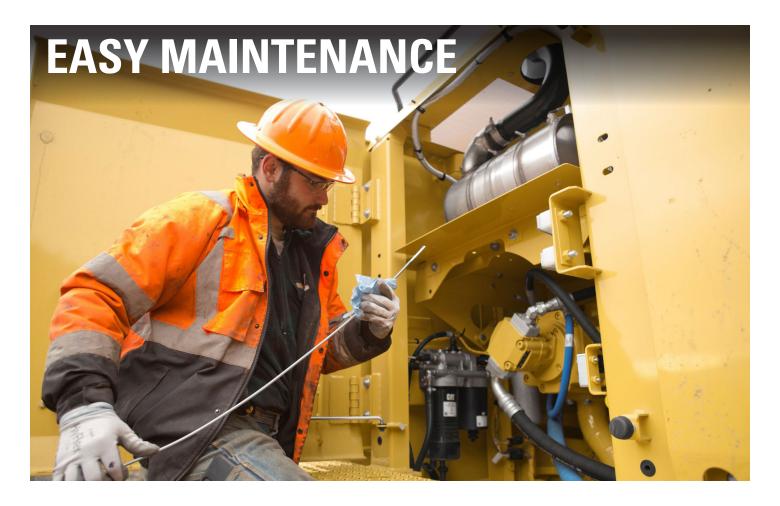
- The General Forestry model is ideal for road work, grappling, processing, and delimbing.
- 2. With a reach boom and quick coupler, you can equip the FM538 with a processor, bucket, thumb, mulcher, and other attachments to get work done quickly and efficiently.
- 3. A frontless option allows you to customize the machine to fit your applications.

Log Loader

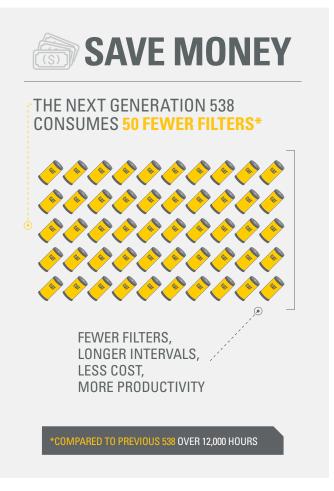
- 1. The log loader configuration is ideal for truck loading, Butt-n-Top loading, power clam applications, and millyard work.
- An under-mounted heel cylinder provides maximum force for shovel logging with a Cat grapple. A variable displacement pump delivers high-flow rotating capability for heel and log grapples and Power Clam and Butt-n-Top grapples.
- 3. An overmounted heel cylinder provides maximum clearance to load trucks and increases lift height for millyard applications.
- Rugged, reliable, simple-to-service Cat forestry grapples range in size from 1322 mm (52") to 1524 mm (60").
- Special Tri Link shoes are available for lower ground pressure and extra flotation in soft, wet, underfoot conditions.





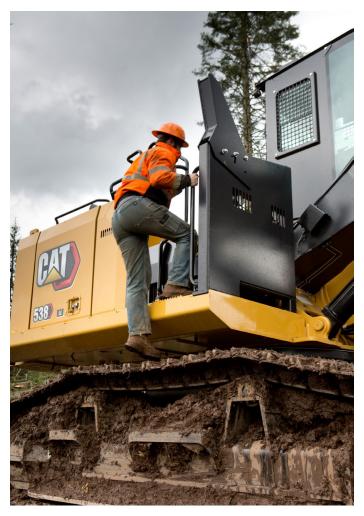


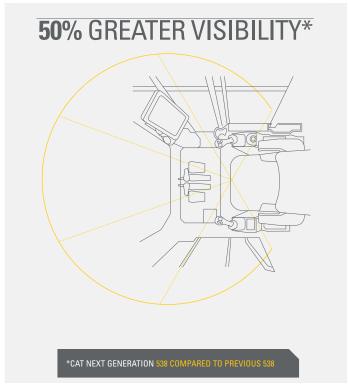
- Boost productivity with proactive service reminders. The Integrated Vehicle Health Management system alerts the operator with step-bystep service guidance and the parts needed so you don't experience unnecessary downtime.
- Expect to spend less on maintenance costs compared to the previous model.
- The engine's regeneration system functions automatically with no operator input or interruption to work.
- Using Cat genuine oil and filters and doing typical S·O·SSM monitoring will double the current service interval to 1,000 hours, giving you greater uptime to do more work.
- S·O·S ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.
- The diesel particulate filter requires no maintenance.
- Replace fuel filters at 1,000 hours twice the interval from the previous filters.
- 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.
- The high-efficiency cooling fan runs only when needed; program intervals so the fan automatically reverses to keep cores clean without interrupting your work.



ENHANCED SAFETY

- The cab meets applicable industry standards for Rollover Protective Structure (ROPS)/Falling Object Protective Structure (FOPS)/Operator Protective Guards (OPG) and protects the operator inside the cab.
- Access most routine maintenance points at ground level.
- The right-hand service platform design provides easy, safe, and quick access to the upper service platform; the service platform steps use an anti-skid punch plate to prevent slipping. Handrails are provided for easy access.
- Larger 32 mm (1.25") polycarbonate front window, smaller cab pillars, and a flat engine hood improve visibility by up to 50%.
- Standard rearview camera enhances jobsite visibility; right-hand-sideview cameras are optional.
- The monitor's slope and grade indicator tell you the machine's position to help optimize its performance.
- A signaling/warning horn and travel alarm enhance jobsite safety.
- 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.





SUSTAINABILITY

- The Cat 7.1 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) and are compatible* with 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.
- Auto Engine Speed Control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Extended maintenance intervals reduce downtime and decrease the amount of fluid and filters that are replaced over the machine's life.
- \bullet Cat VisionLink displays the CO $_2$ 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 at 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 on site.
- Remote Troubleshoot decreases maintenance time and keeps your machine running with maximum efficiency by allowing your Cat dealer to virtually test the machine while working. Once a problem is identified, a technician can fix it the first time, saving time and money.
 - *While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
- ***Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).



INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT ATTACHMENTS

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 the Cat machine for improved performance, safety, and stability.



GRAPPLES

Cat log loading grapples are made with high-strength steel for maximum performance. They are ideal for picking and sorting, bunching and loading, and shoveling applications. Bolt-on access panels make them easier to service.



MULCHERS

Cat forestry mulchers make land clearing fast and safe. Staggered teeth quickly turn trees into mulch; a hydraulically controlled door lets the operator direct mulch flow to enhance jobsite safety.



BUCKETS

Cat buckets move material quickly and efficiently. Their unique design enables more efficient filling and better operator control, which improves overall productivity.



COUPLERS

Cat quick couplers allow you to change between tools in minutes, making the machine capable of doing a variety of money-making tasks.



ATTACHMENT TRACKING MADE EASY

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding grapples, buckets, and other gear quick and easy. The excavator's onboard Bluetooth reader will locate the device automatically.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat®	C7.1
Net Power – ISO 9249	129 kW	172 hp
Engine Power – ISO 14396	129 kW	174 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7 L	428 in ³

- Meets U.S. EPA Tier 4 Final, EU Stage V emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power 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.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with 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.

- *While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.
- **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
- ***Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

HYDRAULIC SYST	ГЕМ			
Main System – Maximum Flow	468 L/min (1	124 gal/min)		
Maximum Pressure – Equipment	35 000 kPa	5,076 psi		
Maximum Pressure – Lift Mode 38 000 kPa 5,511 psi				
Maximum Pressure – Travel	35 000 kPa	5,076 psi		
Maximum Pressure – Swing	30 000 kPa	4,351 psi		
DRIVE				
Maximum Drawbar Pull	256 kN	57,551 lbf		
Maximum Travel Speed	4.9 km/h	3 mile/h		
SWING MECHANISM				

Swing Speed	11 r/min	
Maximum Swing Torque	98 kN·m 72,281 lb/ft	
WEIGHTS		

Operating Weight – General Forestry 30 000 kg 66,140 lb

 High Wide undercarriage, 165 mm (6.5") riser, Reach boom, R3.7 m (12'2") Drop Nose stick, 700 mm (28") double grouser shoes, no processor head.

Operating Weight – Log Loader, Under/ $31\,590\,\mathrm{kg} \qquad 69,\!640\,\mathrm{lb}$ Under

 High Wide undercarriage, 1219 mm (48") riser, Log Loader boom, 3.5 m (11'6") under/under stick with live heel, 700 mm (28") double grouser shoes, no grapple.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 (FIX CAB)/2.0 (48" Riser CAB) kg of refrigerant, which as a CO $_2$ equivalent of 2.574/2.860 metric tonnes).

SERVICE REFILL CAPACITIES			
Fuel Tank	990 L	262 gal	
Cooling System	17.5 L	5 gal	
Engine Oil	25 L	7 gal	
Swing Drive	11.5 L	3 gal	
Final Drive – Each	4.5 L	1 gal	
Hydraulic System – Including Tank	262 L	69 gal	
Hydraulic Tank	143 L	38 gal	
Diesel Exhaust Fluid (DEF) Tank	41 L	11 gal	

Diesel Exhaust Fluid (DEF) Tank	41 L	11 gal	
WORKING RANGES			
GENERAL FORESTRY			
Reach 5.7 m (18'8") boom, thumb-ready 2.9 m HD bucket	(9'6") stick, 1.4	m³ (1.8 yd³)	
Maximum Reach at Ground Level	9820 mm	32'3"	
LOG LOADER			
Under/Under			
Log Loader 5.9 m (19'6") boom, under/under 3.5 r	m (11'6") stick		
Maximum Reach at Ground Level	10 790 mm	35'5"	
Over/Under			
Log Loader 5.9 m (19'6") straight boom, over/under 3.8 m (12'6") stick			
Maximum Reach at Ground Level	11 540 mm	37'10"	
Power Clam			
Log Loader 5.9 m (19'6") straight boom, under/under 3.8 m (12'6") stick			
Maximum Reach at Ground Level	9680 mm	31'9"	
DIMENSIONS			
Length: General Forestry – Boom Stretched Out	12 840 mm	42.2 ft	
Length: Log Loader – Boom Stretched Out	13 690 mm	44.9 ft	
T 10			

DIMENSIONS		
Length: General Forestry – Boom Stretched Out	12 840 mm	42.2 ft
Length: Log Loader – Boom Stretched Out	13 690 mm	44.9 ft
Track Gauge	2790 mm	9.2 ft
Shipping Height – Tilted Cab	3400 mm	11.2 ft
Track Length	4670 mm	15.3 ft
Track Length to Center of Rollers	4670 mm	15.3 ft
Tail Swing Radius	3130 mm	10.3 ft
Transport Width	3490 mm	11.4 ft
Counterweight Clearance	1280 mm	4.2 ft
Handrail Height	3270 mm	10.8 ft
Ground Clearance	750 mm	2.5 ft

SOUND PERFORMANCE			
FM538 GF- General Forestry Linkage			
ISO 6395:2008 (external)	101 dB(A)		
ISO 6396:2008 (inside cab)	80 dB(A)		
FM538 LL – Log Loader Linkage			
ISO 18564:2016 (external)	102 dB(A)		
ISO 18564:2016 (inside cab)	73 dB(A)		

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets Occupational Safety and Health Administration (OSHA) and Mine Safety and Health Administration (MSHA) requirements for operator sound exposure limits in effect at time of manufacture.
- 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.

STANDARD AND OPTIONAL EQUIPMENT

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

BOOMS, STICKS AND LINKAGES	STANDARD	OPTIONAL
5.7 m (18'7") Reach boom	STANDAID	OI HONAL
5.9 m (19'6") Log Loader boom		•
2.9 m (9'7") Thumb Ready stick		•
3.7 m (12'2") Drop Nose stick		•
3.5 m (11'6") Under/Under stick		•
4.2 m (13'9") Under/Under Extended Reach		
stick		•
3.8 m (12'6") Over/Under stick		•
3.8 m (12'6") Power Clam stick		•
B1 family bucket linkage		•
САВ	STANDARD	OPTIONAL
ROPS Forestry cab with polycarbonate windows	•	
Operator Protective Guards (OPG)	•	
32 mm (1.25") polycarbonate front window	•	
Four-point harness seat belt	•	
Rear entry		•
Side entry		•
165 mm (6.5") fixed riser		•
1219 mm (48") tilting riser		•
Heated and cooled seat with air-adjustable suspension		
Integrated joysticks	•	
Tilt-up left-side console (side-entry cab only)	•	
High-resolution touchscreen monitor	•	
Bluetooth® integrated radio (including USB, auxiliary port and microphone)	•	
12V DC outlets	•	
Keyless push-to-start engine control	•	
Automatic bi-level air conditioner	•	
LED dome and floor lights	•	
Windshield wiper and washer	•	
Behind seat storage	•	
CB radio mounts		•
Retractable sunshade	•	
Rear sunshade		•
Cat® Stick Steer		•
Auxiliary relay		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Integrated vehicle health management system	•	
Side-entry service platform	•	
Grouped location for engine oil and fuel filters	•	
Ground level dipstick for engine oil	•	
S-O-S SM ports	•	

CAT TECHNOLOGIES	STANDARD	OPTIONAL
Cat Equipment Management:		
VisionLink™	● ¹	
Remote Flash	•	
Remote Troubleshoot	•	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free 1,000 CCA batteries (×4)	•	
Centralized electrical disconnect switch	•	
LED chassis light	•	
Premium lighting – General Forestry – six additional LED lights, 14 total		•
Premium lighting – Log Loader – 10 additional lights – 18 total		•
115-amp alternator	•	
24-volt electric starting	•	
Pre-start monitoring system	•	
Tool control software	•	
Secondary engine shut off switch	•	

(continued on next page)

¹Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Subscription required. Consult your Cat dealer for details.

STANDARD AND OPTIONAL EQUIPMENT

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

ENGINE	STANDARD	OPTIONAL
Electric fuel priming pump	•	
Cold start package with block heaters and ether		•
Three selectable modes: Power, Smart, Eco	•	
Automatic engine speed control	•	
Automatic engine idle shutdown	•	
Up to 4600 m (15,092 ft) altitude capability	•	
48° C (118° F) high-ambient cooling capacity	•	
-32° C (-25° F) cold start capability	•	
Hydraulic reverse fan	•	
Two-stage fuel filter system	•	
Double element air filter with integrated pre-cleaner	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuits	•	
Boom and stick drift reduction valve	•	
Electronic main control valve	•	
Hydraulic efficiency monitoring		•
Automatic hydraulic oil warmup	•	
Automatic swing parking brake	•	
High performance hydraulic return filter	•	
Automatic two speed travel	•	
Bio hydraulic oil capability	•	
High torque swing drive	•	
Swing cushion valve	•	
Tool control software	•	
Medium pressure circuit		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
Caterpillar One Key security system	•	
Easy lock cab tilting system		•
Cab riser light		•
Inspection lighting		•
Lockable service doors	•	
Lockable external tool/storage box	•	
Lockable fuel cap and hydraulic tank	•	
Service platforms with anti-skid plate and countersunk bolts	•	
Lockable disconnect switch	•	
Right-hand rail and hand hold	•	
Signaling/warning horn	•	
Travel alarm	•	
Swing alarm		•
Ground-level secondary engine shut- off switch	•	
Rearview camera	•	
Right-hand sideview camera		•

UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
High Wide undercarriage	•	
203 mm (8") pitch Cat grease lubricated track chain with PPR3 positive pin retention	•	
Catwalks	•	
Tie down points	•	
Counterweight fuel tank	•	
900 mm (36") triple grouser Tri Link shoes		•
800 mm (31") triple grouser shoes		•
700 mm (28") double grouser shoes		•
600 mm (24") double and single grouser shoes		•
Heavy-duty track rollers and frames	•	
Heavy-duty travel motor guards	•	
Heavy-duty bottom guards	•	
Track guiding guards	•	
High drawbar final drives	•	
Heavy-duty recoil springs	•	
Heavy-duty hydraulic swivel	•	
Heavy-duty hydraulic swivel guard	•	

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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www.cat.com www.caterpillar.com

AEXQ4174-01 (12-2025) Replaces AEXQ4174-00 Build Number: 07H (Aus-NZ, Chile, N Am)

