



Log Loader

General Forestry

Cat[®] 558

GF/LL Forest Machines

Put the new 558 next generation forest machine to work and experience superior performance, exceptional comfort and safety, and extraordinary bottom-line results.

Superior Performance

- The Cat[®] C7.1 twin turbo engine offers 25 percent more power* and can run on biodiesel and renewable fuels.
- Smart mode helps reduce fuel consumption by automatically matching engine and hydraulic power to working conditions.
- Pick and place logs with precision with the all-new electrohydraulic control system.
- Heavy lift mode and 30 percent more swing torque* help you move big logs with confidence.
- Cover ground faster than ever with 15 percent more travel power*.
- Auxiliary hydraulic options let you use Cat grapples and a variety of other attachments.
- Work in extreme environments with standard high-ambient capability of 52° C (126° F) and cold start capability of -32° C (-25° F).

Unmatched Operator Comfort

- Forestry cab comes in a choice of rear entry or side entry with tilt-up console plus 25 percent more space*.
- New dual HVAC system keeps operators comfortable in either cold or warm weather.
- A wide heated and cooled air-suspension seat makes year-round work more pleasant.
- All controls are in front of you within easy reach to reduce twisting and turning and keep you focused on the work area.
- Tilting cab risers – 559 mm (22"), 1219 mm (48"), and 1829 mm (72") are available to help keep you on top of the work.
- Stow your gear with in-cab storage 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

- Start the engine with a push button; use a Bluetooth key fob or the unique Operator ID function.
- Use Operator ID to program your attachment functions, joystick response, and engine power mode; it will remember your settings each time you go to work.
- Make operating easier with the touch of a joystick button. An optional auxiliary relay allows you to power on or turn off a CB radio or other attachments without taking your hands off the joysticks.
- Make moving the machine much easier with optional 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.
- The engine's regeneration system functions automatically with no operator input or interruption to work.
- Navigate easily on the high-resolution touchscreen monitor.
- The available Cat PL161 attachment locator helps you find tools you need up to a range of 60 m (200') – even if it's hidden beneath overgrowth or debris.
- 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.

Versatile Configurations

- General Forestry configuration is available with several stick and hydraulic options so you can equip it for road building, grapple work, or processing.
- Log Loader configuration is ideal for shovel logging, Butt-n-Top loading, power clam applications, and millyard work.
- Rugged, reliable, simple-to-service Cat forestry grapples range in size from 1320 mm (52") to 1524 mm (60").

*All comparisons to 2021 model year 558.



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Easy Maintenance

- Expect up to 15 percent less maintenance cost and consume 50 fewer filters than the previous model*. (Savings calculated over 12,000 machine hours.)
- The diesel particulate filter requires no maintenance.
- Replace fuel filters at 1,000 hours – twice the interval from the previous filters.
- Get improved filtration and longer 3,000 hour service life with the new hydraulic oil return filter – 50 percent longer service than previous filter design.
- Boost productivity with proactive service reminders. The new 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.
- The high-efficiency cooling fan is hydraulically driven and runs only when needed; program intervals so the fan automatically reverses to keep cores clean without interrupting your work.
- Scheduled Oil Sampling (S-O-SSM) ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.
- Standard Product Link™ provides location, machine hours, fuel usage, idle time, diagnostic codes, and other machine data on demand through VisionLink online interface, helping you improve jobsite efficiency with lower operating costs.
- Remote troubleshoot** connects you to a dealer service pro to help solve your problem and quickly get you to work.
- Remote flash** works around your scheduled to ensure your machine's software is up to date for optimal performance.

**Requires cell coverage.

Enhanced Safety

- The cab meets the following standards:
Rollover Protective Structure (ROPS)/Falling Object Protective Structure (FOPS)/Operator Protective Structure (OPS)/
Tip Over Protective Structure (TOPS)
ISO 8082-2:2011
ISO 8083:2006 11,600J
ISO 10262:1998 Level II
ISO 8084:2003
SAE J1356 MAR2013
WCB G603 March 2021
OR-OSHA 437-007-775(14)
- With a flip of a switch, the new Cat easy lock cab riser system on the rear-entry Log Loader with 1219 mm (48") and 1829 mm (72") tilting risers makes tilting the cab for transport simple and safe without the use of hand tools. A light option enhances visibility inside the entire riser compartment.
- Access most routine maintenance points at ground level.
- New right-hand steps provide easy, safe, and quick access to upper service platform; the steps and service platform use anti-skid punch plate to prevent slipping.
- Larger 32 mm (1¼") polycarbonate front window, smaller cab pillars, and a flat engine hood improve visibility by 50 percent*.
- Standard rearview camera enhances jobsite visibility; sideview camera is optional.
- The monitor's slope and grade indicator shows you the machine's position so you can optimize its performance.
- Add an optional swing alarm to alert people when you're rotating the machine.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			CAB (continued)		
6.15 m (20'2") Reach boom – General Forestry		✓	Integrated joysticks	✓	
6.8 m (22'4") boom – Log Loader		✓	Tilt-up left-side console (side-entry cab only)	✓	
3.2 m (10'6") Reach stick		✓	High-resolution touchscreen monitor	✓	
4.05 m (13'3") over/under stick		✓	Bluetooth integrated radio (including USB, aux port and microphone)	✓	
4.05 m (13'3") under/under stick		✓	12V DC outlets	✓	
4.35 m (14'3") power clam		✓	Keyless push-to-start engine control	✓	
CAB			Automatic bi-level air conditioner	✓	
ROPS Forestry cab with polycarbonate windows	✓		LED dome and floor lights	✓	
4-point harness seat belt	✓		Windshield wiper and washer	✓	
Rear entry		✓	Behind seat storage	✓	
Side entry		✓	CB radio mounts		✓
559 mm (22") tilting riser		✓	Retractable sunshade	✓	
1219 mm (48") tilting riser		✓	Cat Stick Steer		✓
1829 mm (72") tilting riser		✓	Auxiliary relay		✓
Heated and cooled seat with air-adjustable suspension	✓				

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
CAT® TECHNOLOGIES			SAFETY AND SECURITY		
Cat Product Link™	✓		Caterpillar One Key security system	✓	
Remote Services capability	✓		Easy lock cab tilting system (rear-entry cab only)		✓
ELECTRICAL SYSTEM			Cab riser light		✓
Maintenance-free 1,000 CCA batteries (x4)	✓		Inspection lighting		✓
Centralized electrical disconnect switch	✓		Lockable service doors	✓	
LED chassis, boom/stick, and cab lights	✓		Lockable external tool/storage box	✓	
Premium lighting – General Forestry – six additional lights		✓	Lockable fuel caps and hydraulic tank	✓	
Premium lighting – Log Loader – 10 additional lights		✓	Service platforms with anti-skid plate and countersunk bolts	✓	
ENGINE			Right-hand handrail and handhold	✓	
Electric fuel priming pump	✓		Signaling/warning horn	✓	
Cold start package with block heater and ether assist		✓	Ground-level secondary engine shutoff switch	✓	
Three selectable modes: Power, Smart, Eco	✓		Rearview camera	✓	
Automatic engine speed control	✓		Right-hand sideview camera		✓
Automatic engine idle shutdown	✓		Travel alarm	✓	
Up to 4500 m (14,764 ft) altitude capability	✓		Swing alarm		✓
52° C (126° F) high-ambient cooling capacity	✓		SERVICE AND MAINTENANCE		
-32° C (-25° F) cold start capability	✓		Integrated vehicle health management system		✓
Hydraulic reverse fan	✓		Side-entry service platform	✓	
Two-stage fuel filter system	✓		Left- and right-side fuel fill locations	✓	
Double element air filter with integrated pre-cleaner	✓		Grouped location for engine oil and fuel filters	✓	
HYDRAULIC SYSTEM			S.O.S SM sampling ports	✓	
Boom and stick regeneration circuits	✓		UNDERCARRIAGE AND STRUCTURES		
Boom and stick drift reduction valve	✓		High Wide undercarriage	✓	
Electronic main control valve	✓		Grease lubricated track with positive pin retention	✓	
Automatic hydraulic oil warmup	✓		Catwalks	✓	
Automatic swing parking brake	✓		Tie down points	✓	
High performance hydraulic return filter	✓		Counterweight fuel tank	✓	
Automatic two speed travel	✓		850 mm (33") triple grouser shoes		✓
Bio hydraulic oil capability	✓		700 mm (28") double and single grouser shoes		✓
High torque swing drive	✓		Heavy-duty track rollers	✓	
Swing cushion valve	✓		Heavy-duty travel motor guards	✓	
Tool control software	✓		Heavy-duty bottom guards	✓	
Medium pressure circuit		✓	Track guiding guards	✓	
			High drawbar final drives	✓	
			Heavy-duty recoil springs	✓	
			Heavy-duty hydraulic swivel	✓	
			Heavy-duty hydraulic swivel guard	✓	

Cat® 558 GF/LL Forest Machines

Technical Specifications

Engine

Engine Model	Cat C7.1TTA	
Engine Power – ISO 9249: 2007	222.4 kW	298 hp
Engine Power – ISO 14396: 2002	225.0 kW	302 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.1 L	433.3 in ³

*Meets U.S. EPA Tier 4 Final, EU Stage V emission standards.

- Power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator.
- Rated speed at 1,800 rpm.

Drive

Maximum Travel Speed	4.4 km/h	2.8 mph
Maximum Drawbar Pull	350 kN	78,638 lbf

Hydraulic System

Main System – Maximum Flow – Implement	538 L/min	142.1 gal/min
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum System Pressure – Heavy Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	27 200 kPa	3,945 psi

Swing Mechanism

Swing Speed	7.4 rpm	
Maximum Swing Torque	154 kN·m	113,584 lbf·ft

Weights

Operating Weight – General Forestry	41 500 kg	91,490 lb
• High Wide undercarriage, Reach boom, R3.2 m (10'2") Reach stick, 700 mm (28") double grouser shoes, 1.76 m ³ (2.30 yd ³) HD bucket.		
Operating Weight – Log Loader, Over/Under	44 300 kg	97,660 lb
• High Wide undercarriage, Log Loader boom, 4.05 m (13'3") Over/Under stick with live heel, 700 mm (28") double grouser shoes, no grapple.		

Service Refill Capacities

Fuel Tank Capacity	990 L	262 gal
Cooling System	38.0 L	10 gal
Engine Oil (with filter)	25 L	7 gal
Swing Drive	13.5 L	4 gal
Final Drive (each)	9.5 L	3 gal
Hydraulic System (including tank)	348 L	92 gal
Hydraulic Tank	185 L	49 gal
Diesel Exhaust Fluid (DEF) Tank	41 L	11 gal

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes.

Working Ranges

General Forestry

Reach 6.15 m (20'2") boom, Reach 3.2 m (10'6") stick, 1.76 m³ (2.3 yd³) HD bucket

Maximum Reach at Ground Level 10 620 mm 34'10"

Log Loader

Under/Under

Log Loader 6.8 m (22'4") boom, under/under 4.05 m (13'3") stick

Maximum reach at ground level 11 980 39'4"

Over/Under

Log Loader 6.8 m (22'4") boom, over/under 4.05 m (13'3") stick

Maximum reach at ground level 12 590 41'4"

Power Clam

Log Loader 6.8 m (22'4") boom, power clam 4.35 m (14'3") stick

Maximum reach at ground level 11 030 36'2"

Dimensions

	General Forestry		Log Loader	
Boom	Reach 6.15 m (20'2")		LL 6.8 m (22'4")	
Stick	Reach 3.2 m (10'6")		Over/Under 4.05 m (13'3")	
Stick	—		Under/Under 4.05 m (13'3")	
Stick	—		Power Clam 4.35 m (14'3")	
Shipping Height (cab tilted)	3760 mm	12'4"	3490 mm	11'5"
Handrail Height	3510 mm	11'6"	3520 mm	11'7"
Shipping Length*				
Road Builder – with bucket	14 060 mm	46'2"		
Under/Under – no grapple			15 730 mm	51'7"
Over/Under – no grapple			15 030 mm	49'4"
Power Clam – no grapple			14 630 mm	48'0"
Tail Swing Radius	3530 mm	11'7"	3530 mm	11'7"
Counterweight Clearance	1500 mm	4'11"	1500 mm	4'11"
Ground Clearance	770 mm	2'6"	770 mm	2'6"
Track Length	5160 mm	16'11"	5160 mm	16'11"
Length to Center of Rollers	4120 mm	13'6"	4120 mm	13'6"
Track Gauge	2920 mm	9'7"	2920 mm	9'7"
Transport Width – 700 mm (28") shoes	3650 mm	12'0"	3650 mm	12'0"

*Boom and stick stretched out.

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