



# Cat<sup>®</sup> 558/558 LL

## Forest Machines

*The 558 and 558 LL feature enhanced performance coupled with ultimate machine efficiency. Cat<sup>®</sup> components, purpose built upper and lower frames, and application specific linkage configurations increase machine up time and lower machine operating costs.*

### Performance

- Cat 178 kW (239 hp) C7.1 ACERT™ Tier 4 Final engine with increased horsepower maintains maximum performance under load
- Strong hydraulic horsepower for efficient implement performance and greater productivity
- An increase in swing torque of 17 percent on General Forestry models and 35 percent on Log Loader models, provides added power to move trees, which enables more efficiency and productivity
- Heavy lift mode features increased lift capacity to handle larger payloads with improved control
- 989 L (261 gal) counterweight fuel tank for extended machine operation and maximum uptime
- Machine width and track length designed for stability in varied logging applications

### Efficiency

- Engine, hydraulics, and work tool integration are optimized to minimize power losses and increase overall machine efficiency
- Steady state high idle speed and U.S. EPA Tier 4 Final technology reduce fuel consumption
- Larger hydraulic pump allows engine to operate at lower rpms with increased performance to maximize efficiency
- Component layout and back-to-back main hydraulic control valve reduce oil flow restrictions and aid in greater fuel economy
- Machine designed for integration and optimization with Cat grapples
- Powerful, multi-functioning hydraulics, combined with strong machine performance ensure work tools function quickly and smoothly to complete work faster

### Application Versatility

- Boom arrangements and hydraulic systems for specific applications enable more effective road building, loading, processing, shoveling, or millyard stacking
- New track option meets shovel logging application requirements
- Two new premium rear entry cab choices, available on the Log Loader, include a 1219 mm (48 in) straight riser or a 1829 mm (72 in) cab forward riser
- Purpose built processor cab option that includes 19 mm (0.75 in) front windows

### Reliability and Durability

- Variable pitch, reversing cooling fan maintains optimum fluid temperature in heavy duty forestry applications
- Cooling capacity increased 33 percent for trouble-free operation
- Purpose built upper frame, high-wide carbody, robust linkage configurations, and heavy-duty enclosures are reinforced with thick doubler plates, extra gussets, and other reinforcements for structural integrity in severe applications
- Large, 216 mm (8.5 in) pitch (349 HEX), grease lubricated tracks, provide excellent life in variable forestry working conditions
- Validated and proven excavator technologies ensure overall machine reliability

### Serviceability

- One-piece engine hood design, with two opening angles, allows easy access to engine and cooling compartments
- Side-by-side engine and hydraulic coolers are easy to access for cleaning, while reduced cooling fins per inch allows better debris flow-through and reduced clogging potential
- 0.71 m<sup>3</sup> (25 ft<sup>3</sup>) of storage space at ground level, provides ready access to tools, equipment, and supplies that operators use daily

### Operator Comfort and Technology

- Premium fit and finishes to maximize operator experience
- Fully adjustable, air ride cab seat that includes heating and cooling capability for comfort and reduced operator fatigue
- LED lights increase visibility
- Rear entry cab option provides safe access through a fully lit platform through the use of a key FOB
- Rear entry cab window design improves visibility for shovel logging and other applications
- Rear entry cab includes a new innovative cab lock down system that minimizes transport time and improves uptime
- Tool control as standard equipment for swapping and selecting tools quickly and efficiently
- Cat Product Link™ allows for remote location of a machine and enables tracking of fuel consumption and other events



# Cat® 558/558 LL Forest Machines

## Engine

Engine Model	Cat C7.1 ACERT	
Gross Power at 2,200 rpm	178 kW	239 hp
Engine Speed		
Operation	1,750 rpm	
Travel	1,800 rpm	
Displacement	7.01 L	428 in <sup>3</sup>
Number of Cylinders	6	

## Weights

### Estimated Operating Weight without Attachment

558 (General Forestry, Reach)	38 664 kg	85,239 lb
558 LL (Log Loader, U/U)	42 264 kg	93,176 lb
558 LL (Log Loader, O/U)	42 186 kg	93,004 lb

## Operating Specifications

Maximum Speed (turtle)	2.4 km/h	1.5 mph
Maximum Speed (rabbit)	3.7 km/h	2.3 mph
Maximum Drawbar Pull	321 kN	72,164 lbf
Swing Torque – 558 (GF)	101 kN·m	74,494 lbf-ft
Swing Torque – 558 LL	117 kN·m	86,295 lbf-ft
Maximum Swing Speed – 558 (GF)	7.5 rpm	
Maximum Swing Speed – 558 LL	7.5 rpm	

## Hydraulic System

Main Pumps Maximum Flow (per pump)	240 L/min	63.4 gal/min
Main Pumps Maximum Flow (both pumps)	480 L/min	126.8 gal/min
Maximum System Pressure		
Implements	35 000 kPa	5,076 psi
Travel	35 000 kPa	5,076 psi
Swing	32 000 kPa	4,641 psi
Heavy Lift Mode	38 000 kPa	5,511 psi
Auxiliary Pump – U/U and O/U (558 LL)		
Maximum Flow	53 L/min	14.0 gal/min
Maximum Pressure	10 335 kPa	1,499 psi
Auxiliary Pump – Reach with Rotate (558)/ Bnt/Power Clam (558 LL)		
Pump Drive Gear Ratio	1.28:1	
Maximum Flow	141 L/min	37.2 gal/min
Maximum Pressure	10 335 kPa	1,499 psi

## Service Refill Capacities

Fuel Tank – CWT	989.3 L	261.4 gal
DEF Tank	46.0 L	12.2 gal
Engine Crankcase	24.0 L	6.3 gal
Cooling System	30.0 L	7.9 gal
Final Drive – Each	11.0 L	2.9 gal
Hydraulic Tank	175.0 L	46.2 gal
Hydraulic System – Total	310.0 L	81.9 gal
Swing Drive	11.0 L	2.9 gal

## Undercarriage

Undercarriage Pitch	215.9 mm	8.5 in
Track Gauge	2921 mm	115.0 in
Track Length	5072 mm	199.7 in
Ground Clearance	749 mm	29.5 in

## Dimensions

### General Forestry – 558 (boom stretched out)

Height of Tilted Side Entry Cab	3498 mm	137.7 in
Boom Height	3720 mm	146.5 in
Overall Height	4178 mm	164.5 in
Overall Length (Reach)	12 680 mm	499.2 in
Tail Swing Radius	3653 mm	143.8 in
Distance Between Idler and Sprocket Centerline	4019 mm	158.2 in
Track Length	5072 mm	199.7 in
Ground Clearance	749 mm	29.5 in
Track Gauge	2921 mm	115.0 in
Width with 700 mm (28 in) Shoes	3621 mm	142.6 in

### Log Loader – 558 LL (boom stretched out)

Height of Tilted Side Entry Cab	3498 mm	137.7 in
Boom Height	2921 mm	115.0 in
Overall Height	4932 mm	194.2 in
Overall Length (U/U)	15 967 mm	628.6 in
Tail Swing Radius	3653 mm	143.8 in
Distance Between Idler and Sprocket Centerline	4019 mm	158.2 in
Track Length	5072 mm	199.7 in
Ground Clearance	749 mm	29.5 in
Track Gauge	2921 mm	115.0 in
Width with 700 mm (28 in) Shoes	3621 mm	142.6 in

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