

# PRODUCT SPECIFICATIONS FOR FM558 GF/FM558 LL



## ENGINE

<b>Engine Model</b>	Cat C7.1
<b>Net Power - ISO 9249</b>	222.5 kW
<b>Engine Power - ISO 14396</b>	225.1 kW
<b>Net Power - ISO 9249 (DIN)</b>	303 hp (metric)
<b>Engine Power - ISO 14396 (DIN)</b>	306 hp (metric)
<b>Bore</b>	115 mm
<b>Stroke</b>	135 mm
<b>Displacement</b>	7.1 r/min
<b>Biodiesel Capability</b>	B20 <sup>1</sup>
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final, EU Stage V emission standards.
<b>Note (1)</b>	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 1,800 rpm. Advertised power is tested per the specified standard in effect at time of manufacture.

**Note (2)**

<sup>1</sup>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 (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.

## DRIVE

Maximum Drawbar Pull	350 kN
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Maximum Travel Speed	4.4 km/h
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## HYDRAULIC SYSTEM

Main System - Maximum Flow	538 l/min
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Maximum Pressure - Equipment	35000 kPa
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Maximum Pressure - Equipment - Lift Mode	38000 kPa
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Maximum Pressure - Travel	35000 kPa
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Maximum Pressure - Swing	27200 kPa
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## SWING MECHANISM

Swing Speed	7.4 r/min
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Maximum Swing Torque	154 kN·m
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## WEIGHTS

General Forestry	41500 kg
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Log Loader (U/U)	44700 kg
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## SERVICE REFILL CAPACITIES

<b>Fuel Tank</b>	990 l
<b>Cooling System</b>	38 l
<b>Engine Oil</b>	25 l
<b>Swing Drive</b>	13.5 l
<b>Final Drive - Each</b>	9.5 l
<b>Hydraulic System - Including Tank</b>	348 l
<b>Hydraulic Tank</b>	185 l
<b>DEF Tank</b>	41 l

## WORKING RANGES

<b>Max Reach at Grapple Mount on Heel at Ground Level - Log Loader Under/Under</b>	11980 mm
<b>Max Reach at Stick Nose at Ground Level - General Forestry Road Builder</b>	10620 mm

## DIMENSIONS

<b>Note (1)</b>	General Forestry
<b>Length: General Forestry - Boom Stretched Out</b>	14060 mm
<b>Length: Log Loader - Boom Stretched Out</b>	15730 mm
<b>Track Gauge</b>	2920 mm
<b>Shipping Height - Tilted Cab</b>	3760 mm
<b>Track Length</b>	5160 mm
<b>Track Length to Center of Rollers</b>	4120 mm

<b>Tail Swing Radius</b>	3530 mm
<b>Transport Width</b>	3650 mm
<b>Counterweight Clearance</b>	1520 mm
<b>Handrail Height</b>	3510 mm
<b>Ground Clearance</b>	770 mm

## AIR CONDITIONING SYSTEM

### Note (1)

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.1 (22" Riser CAB)/2.2 (48"/72" Riser CAB) kg of refrigerant, which as a CO2 equivalent of 3.003/3.146 metric tonnes.

## FM558 GF/FM558 LL STANDARD EQUIPMENT

### CAB

ROPS Forestry cab with polycarbonate windows  
 4-point harness seat belt  
 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, aux 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  
 Retractable sunshade

### CAT TECHNOLOGIES

Cat Product Link  
 Remote Services capability

### ELECTRICAL SYSTEM

Maintenance-free 1000 CCA batteries (x4)  
 Centralized electrical disconnect switch  
 LED chassis, boom (GF), stick (LL) and cab lights

## **ENGINE**

Electric fuel priming pump  
Three selectable modes: Power, Smart, Eco  
Automatic engine speed control  
Automatic engine idle shutdown  
Up to 4500m (14,764 ft) altitude capability  
52° C (126° 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**

Boom and stick regeneration circuits  
Boom and stick drift reduction valve  
Electronic main control valve  
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

## **SAFETY AND SECURITY**

Caterpillar One Key security system  
Lockable service doors  
Lockable external tool/storage box  
Lockable fuel caps and hydraulic tank  
Service platforms with anti-skid plate and countersunk bolts  
RH handrail and handhold  
Signaling/warning horn  
Ground-level secondary engine shutoff switch  
Rearview camera  
Travel alarm

## **SERVICE AND MAINTENANCE**

Side-entry service platform  
Left/right-side fuel fill locations  
Grouped location for engine oil and fuel filters  
S·O·S sampling ports

## **UNDERCARRIAGE AND STRUCTURES**

High Wide undercarriage

Grease lubricated track with positive pin retention

Catwalks

Tie down points

Counterweight fuel tank

Heavy-duty track rollers

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

## **FM558 GF/FM558 LL OPTIONAL EQUIPMENT**

### **BOOMS AND STICKS**

6.15 m (20'2") Reach boom - General Forestry

6.08 m (22'4") boom - Log Loader

3.2 m (10'6") Reach stick

4.05 m (13'3") over/under stick

4.05 m (13'3") under/under

4.35 m (14'3") power clam

### **CAB**

Rear entry

Side entry

559 mm (22") tilting riser

1219 mm (48") tilting riser

1829 mm (72") tilting riser

CB radio mounts

Cat Stick Steer

Auxiliary relay

### **ELECTRICAL SYSTEM**

Premium lighting - General Forestry - 6 additional LED lights

Premium lighting - Log Loader - 10 additional LED lights

### **ENGINE**

Cold start package with block heater and ether assist

### **HYDRAULIC SYSTEM**

Medium pressure circuit

### **SAFETY AND SECURITY**

Easy lock cab tilting system (rear-entry cab only)

Cab riser light  
Inspection lighting  
Right-hand sideview camera  
Swing alarm

## **SERVICE AND MAINTENANCE**

Integrated vehicle health management system

## **UNDERCARRIAGE AND STRUCTURES**

850 mm (33") triple grouser shoes  
700 mm (28") double and single grouser shoes