



# 120

## Motor Grader

# Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

### Table of Contents

<b>Specifications</b> .....	<b>2</b>
LVR Configuration .....	2
Engine .....	2
Powertrain .....	2
Hydraulic System .....	3
Operating Specifications .....	3
Net Power - Non AWD .....	3
Net Power - AWD .....	3
Operating Weight .....	4
Electrical .....	4
Service Refill Capacities .....	4
JOY Configuration .....	5
Engine .....	5
Powertrain .....	5
Hydraulic System .....	5
Operating Specifications .....	6
Net Power - Non AWD .....	6
Net Power - AWD .....	6
Operating Weight .....	6
Electrical .....	6
Service Refill Capacities .....	6
Dimensions .....	7
Optional Tire Arrangements .....	7
Moldboard .....	8
Drawbar and Circle .....	8
Blade Range .....	9
Ripper/Scarifer .....	9
Standards .....	9
Sound Standards .....	9
Air Conditioning System .....	9
<b>Standard and Optional Equipment</b> .....	<b>10</b>
<b>120 Environmental Declaration</b> .....	<b>12</b>

# 120 LVR Motor Grader Specifications

## 120 LVR Engine

Engine Model	Cat® C7.1	
Net Engine Power Range (Tandem) ISO 9249	85 - 129 kW	114 - 173 hp
Net Engine Power Range (AWD) ISO 9249	84 - 129 kW	113 - 173 hp
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	1.9 gal
Torque Rise (Tandem)	29%	
Torque Rise (AWD)	289%	
Maximum Torque	822N•m	606 lbf-ft
Rated Speed	2,000 rpm	
Number of Cylinders	6	
Idle Speed		
High Idle Speed	2,150 rpm	
Low Idle Speed (1F-8F and 1R-6R)	800 rpm	
Low Idle Speed (Hibernate 7 finish gear)	750 rpm	
Maximum Altitude at Full Power	4500 m	14,764 ft
Non-AWD	4500 m	14,764 ft
AWD	3000 m	9,873 ft

## 120 LVR Powertrain

Forward/Reverse Gears	9 Forward/6 Reverse including finish gear
Transmission	Direct Drive Powershift
High Idle Speed	2,150 rpm
Low Idle Speed	800 rpm
Air Cleaner	Dry
Brakes	Type System
Service	Dual Circuit Hydraulic
Parking	Spring Apply / Hydraulic Release
Secondary	Dual Circuit Hydraulic

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- See page 12 for Environmental Declarations and Sustainability information.
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,000 rpm.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 100% 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.

\* 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.

# 120 LVR Motor Grader Specifications

## 120 LVR Hydraulic System

Type (Implement/Steering/Brake)	Closed - Center
Type (AWD)	Closed - Center
Circuit Type	Parallel Post Compensated
Pump Type	Variable Piston
Pump Output	24 129 kPa at 2,000 rpm
System Flow	0 - 140 L/min 0 - 49 gal/min

## 120 LVR Operating Specifications

Top Speed Forward	48.3 km/h	30.0 mph
Top Speed Reverse	38.1 km/h	23.7 mph
Turning Radius, Outside Front Tires	7.4 m	291.3 in
Steering Range	50°	
Articulation Angle	20°	
Front Wheel Lean	18°	
Total Oscillation	32°	

### Forward

Finish Gear (FG)	3 km/h	1.9 mph
1st	4.1 km/h	2.5 mph
2nd	5.6 km/h	3.5 mph
3rd	8.2 km/h	5.1 mph
4th	11.2 km/h	7.0 mph
5th	17.7 km/h	11.0 mph
6th	24.1 km/h	15.0 mph
7th	33.2 km/h	20.6 mph
8th	48.3 km/h	30.0 mph

### Reverse

1st	3.3 km/h	2.1 mph
2nd	6.1 km/h	3.8 mph
3rd	8.9 km/h	5.5 mph
4th	14.0 km/h	8.7 mph
5th	26.2 km/h	16.3 mph
6th	38.1 km/h	23.7 mph

• Machine speed measured at 2,150 rpm with 14.00R24 radial tires, no slip.

## 120 LVR Net Power - Non AWD

### Gear

#### Forward

Finish Gear (FG)	97 kW	130 hp
1st	119 kW	160 hp
2nd	122 kW	164 hp
3rd	124 kW	166 hp
4th	124 kW	166 hp
5th	124 kW	166 hp
6th	124 kW	166 hp
7th	124 kW	166 hp
8th	124 kW	166 hp

#### Reverse

1st	119 kW	160 hp
2nd	122 kW	164 hp
3rd-6th	124 kW	166 hp

## 120 LVR Net Power - AWD

### Gear

#### Forward

Finish Gear (FG)	98 kW	131 hp
1st	121 kW	162 hp
2nd	124 kW	166 hp
3rd	130 kW	174 hp
4th	134 kW	180 hp
5th	138 kW	185 hp
6th	138 kW	185 hp
7th	138 kW	185 hp
8th	138 kW	185 hp

#### Reverse

1st	120 kW	161 hp
2nd	124 kW	166 hp
3rd-6th	124 kW	166 hp

# 120 LVR Motor Grader Specifications

## 120 LVR Operating Weight

Weight, Typically Equipped, Tandem (Non-AWD)	16 556 kg	36,500 lb
Front Axle:	4718 kg	10,401 lb
Rear Axle:	16 556 kg	36,500 lb

## 120 LVR Electrical

Starting System Type	Direct Electric
Standard Duty Battery	
CCA at -18°	900 amp
Volts	12 V
Quantity	2
Heavy Duty Battery	
CCA at -18°	1,125 amp
Volts	12 V
Quantity	2
Extreme Duty Battery	
CCA at -18°	1,400 amp
Volts	12 V
Quantity	2
Standard Alternator	115 amps at 24 V
Heavy Duty Alternator	150 amps at 24 V

## 120 LVR Service Refill Capacities

Standard Circle Drive	7 L	1.8 gal
Cooling System	53 L	14.0 gal
Engine Crankcase	18 L	4.8 gal
Fuel Tank	246 L	65.0 gal
Hydraulic System (Non-AWD)	94 L	24.8 gal
Hydraulic System (AWD)	124 L	32.8 gal
Tandem Housing (each)	60 L	15.9 gal
Transmission and Differential	64 L	16.9 gal

# 120 JOY Motor Grader Specifications

## 120 JOY Engine

Engine Model	Cat® C7.1	
Net Engine Power Range (Tandem) ISO 9249	85 - 129 kW	114 - 173 hp
Net Engine Power Range (AWD) ISO 9249	84 - 129 kW	113 - 173 hp
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	1.9 gal
Torque Rise (Tandem)	29%	
Torque Rise (AWD)	28%	
Maximum Torque	822N•m	606 lbf-ft
Rated Speed	2,000 rpm	
Number of Cylinders	6	
Idle Speed		
High Idle Speed	2,150 rpm	
Low Idle Speed	800 rpm	
Maximum Altitude at Full Power	4500 m	14,764 ft
Non-AWD	4500 m	14,764 ft
AWD	3000 m	9,873 ft

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- See page 12 for Environmental Declarations and Sustainability information.
- Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,000 rpm.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 100% 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.

\* 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.

## 120 JOY Powertrain

Forward/Reverse Gears	8 Forward/6 Reverse
Transmission	Direct Drive Powershift, Countershaft
High Idle Speed	2,150 rpm
Low Idle Speed	800 rpm
Air Cleaner	Dry
Brakes	Type System
Service	Dual Circuit Hydraulic
Parking	Spring Apply/Hydraulic Release
Secondary	Dual Circuit Hydraulic

## 120 JOY Hydraulic System

Type (Implement/Steering/Brake)	Closed - Center
Type (AWD)	Closed - Center
Circuit Type	Parallel Post Compensated
Pump Type	Variable Piston
Pump Output	24 129 kPa at 2,000 rpm
System Flow	0 - 200 L/min 0 - 53 gal/min

# 120 JOY Motor Grader Specifications

## 120 JOY Operating Specifications

Top Speed Forward	48.3 km/h	30 mph
Top Speed Reverse	38.1 km/h	23.7 mph
Turning Radius, Outside Front Tires	7.4 m	291.3 in
Steering Range	50°	
Articulation Angle	20°	
Front Wheel Lean	18°	
Total Oscillation	32°	
Forward		
1st	4.1 km/h	2.5 mph
2nd	5.6 km/h	3.5 mph
3rd	8.2 km/h	5.1 mph
4th	11.3 km/h	7.0 mph
5th	17.7 km/h	11.0 mph
6th	24.1 km/h	15.0 mph
7th	33.2 km/h	20.6 mph
8th	48.3 km/h	30.0 mph

Reverse		
1st	3.3 km/h	2.1 mph
2nd	6.1 km/h	3.8 mph
3rd	8.9 km/h	5.5 mph
4th	14 km/h	8.7 mph
5th	26.2 km/h	16.3 mph
6th	38.1 km/h	23.7 mph

- Machine speed measured at 2,150 rpm with 14.00R24 radial tires, no slip.

## 120 JOY Net Power - Non AWD

<b>Gear</b>		
Forward		
1st	100 kW	134 hp
2nd	100 kW	134 hp
3rd	104 kW	139 hp
4th	111 kW	149 hp
5th	124 kW	166 hp
6th	129 kW	173 hp
7th	129 kW	173 hp
8th	129 kW	173 hp
Reverse		
1st	100 kW	134 hp
2nd	100 kW	134 hp
3rd-6th	104 kW	139 hp

## 120 JOY Net Power - AWD

<b>Gear</b>		
Forward		
1st	101 kW	135 hp
2nd	101 kW	135 hp
3rd	107 kW	143 hp
4th	115 kW	154 hp
5th	128 kW	172 hp
6th	129 kW	173 hp
7th	129 kW	173 hp
8th	129 kW	173 hp
Reverse		
1st	101 kW	135 hp
2nd	101 kW	135 hp
3rd-6th	107 kW	143 hp

## 120 JOY Operating Weight

Weight, Typically Equipped (Non-AWD)		
	14 247 kg	31,409 lb
Front Axle:	3796 kg	8,369 lb
Rear Axle:	10 451 kg	2,3041 lb
Weight, Typically Equipped (AWD)		
	14 807 kg	32,644 lb
Front Axle:	4086 kg	9,008 lb
Rear Axle:	10 721 kg	23,636 lb

## 120 JOY Electrical

Starting System Type	Direct Electric
Standard Duty Battery	
CCA at -18°	1125 amp
Volts	12 V
Quantity	2
Heavy Duty Battery	
CCA at -18°	1125 amp
Volts	12 V
Quantity	2
Extreme Duty Battery	
CCA at -18°	1400 amp
Volts	12 V
Quantity	2
Standard Alternator	145 amp at 24 V
Heavy Duty Alternator	150 amp at 24 V

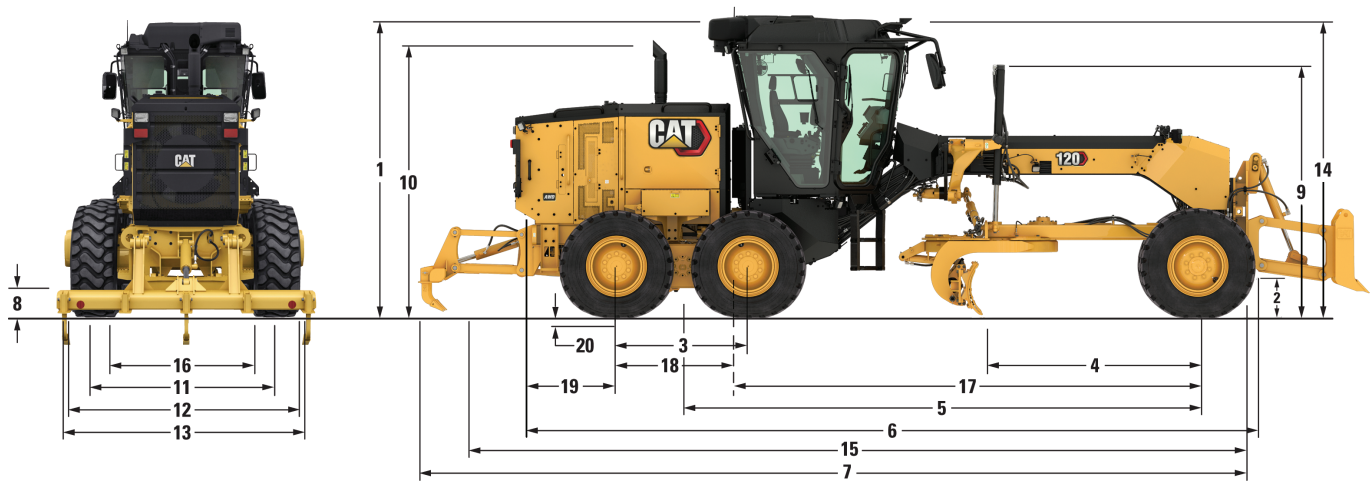
## 120 JOY Service Refill Capacities

Standard Circle Drive	7 L	1.8 gal
Cooling System	49 L	12.9 gal
Engine Crankcase	18 L	4.8 gal
Fuel Tank	246 L	65.0 gal
Hydraulic System (Non-AWD)	75 L	19.8 gal
Hydraulic System (AWD)	75 L	19.8 gal
Tandem Housing (each)	60 L	15.9 gal
Transmission and Differential	64 L	16.9 gal

# 120 Motor Grader Specifications

## Dimensions

All data applies to all 120 configurations (Non-AWD, AWD, LVR, and JS) unless otherwise noted. All dimensions are approximate and may vary dependent on tire selection. Dimensions below are calculated with 14.0R24 tires.



1	Height – Top of Cab	3465 mm	136.4 in
2	Height – Front Axle Center	590 mm	23.2 in
3	Length – Between Tandem Axles	1510 mm	59.4 in
4	Length – Front Axle to Moldboard	2551 mm	100.4 in
5	Length – Front Axle to Mid Tandem	5945 mm	234.1 in
6	Length – Front Tire to Rear of Machine	8534 mm	336.0 in
7	Length – Push Plate to Ripper	9838 mm	387.3 in
8	Ground Clearance at Rear Axle	349 mm	13.7 in
9	Height to Top of Cylinders	2895 mm	114.0 in
10	Height to Exhaust Stack	2924 mm	115.1 in
11	Width – Tire Center Lines	2070 mm	81.5 in
12	Width – Outside Rear Tires	2491 mm	98.1 in
13	Width – Outside Front Tires	2495 mm	98.2 in
14	Maximum Height – with Attachments	3440 mm	135.4 in
15	Length – Push Plate to Raised Ripper	9583 mm	377.3 in
16	Width – Inside Rear Tires	1649 mm	64.9 in
17	Length – Front Axle to Articulation Hitch	5284 mm	208.0 in
18	Length – Rear Axle to Articulation Hitch	660 mm	26.0 in
19	Length – Rear Axle to Rear of Frame	1726 mm	68.0 in
20	Height – Tire Deflection at Performance Weight	45 mm	1.8 in

## Optional Tire Arrangements

Rim Size	Wheel Group	Tires
10 x 24	Multi-Piece	13.00-24
10 x 24	Multi-Piece	14.00-24
10 x 24	Multi-Piece	14.00-24
14 x 25	Multi-Piece	14.00R24
14 x 25	Multi-Piece	17.5R25
14 x 25	Multi-Piece	17.5R-25

**Note:** Consult your dealer for individual tire width, size and brand.

# 120 JOY Motor Grader Specifications

<b>Moldboard</b>				
<b>Moldboard (Size)</b>	<b>12 ft Moldboard</b>		<b>14 ft Moldboard</b>	
Height	490 mm	19.3 in	490 mm	19.3 in
Width	3556 mm	12 ft	4166 mm	14 ft
Thickness	22 mm	0.9 in	22 mm	0.9 in
Arc Radius	413 mm	16.3 in	413 mm	16.3 in
Throat Clearance	105 mm	4.1 in	105 mm	4.1 in
<b>Cutting Edge</b>				
Height	152.4 mm	6.0 in	203.2 mm	8.0 in
Width	1750.9 mm	6 ft	2055.7 mm	7 ft
Thickness	15.9 mm	0.6 in	19	0.7 in
Height (Cutting Edges with Moldboard)	3678.8 mm	144.8 in	4288.8 mm	168.9 in
Width (Cutting Edges with Moldboard)	536.8 mm	21.1 in	563.8 mm	22.2 in
<b>End Bit</b>				
Height	511.2 mm	20.1 in	511.2 mm	20.1 in
Width	235 mm	1 ft	12.7 mm	0 ft
Thickness	12.7 mm	0.5 in	4328 mm	170.4 in
Height (Cutting edges with Moldboard)	3718.4 mm	146.4 in	563.8 mm	22.2 in
Width (Cutting edges with Moldboard)	563.8 mm	22.2 in	3718.4 mm	146.4 in
<b>Drawbar and Circle</b>				
<b>Drawbar</b>				
Height	152 mm		6.0 in	
Width	76.2 mm		3.0 in	
Thickness	12.7 mm		0.5 in	
Shoes	6 – with replaceable wear strips			
<b>Circle</b>				
Section	Rolled Ring Forging			
Outside Diameter	1530 mm		60.2 in	
Number of Teeth	64			
Rotation	360°			

# 120 Motor Grader Specifications

## Blade Range

Circle Centershift		
Left	656 mm	25.8 in
Right	656 mm	25.8 in
Moldboard Side Shift with 17.5/R25 tires		
Left	512 mm	20.2 in
Right	663 mm	26.1 in
Maximum Shoulder Reach Outside of Tires (12 ft moldboard)		
Left	141 mm	5.6 in
Right	1579 mm	62.2 in
Maximum Shoulder Reach Outside of Tires (14 ft moldboard)		
Left	2020 mm	79.5 in
Right	2177 mm	85.7 in
Maximum Blade Position Angle (both sides)		90°
Maximum Lift Above Ground	410 mm	16.1 in
Maximum Depth of Cut	775 mm	30.5 in
Maximum Blade Tip		
Forward		40°
Rear		5°

## Ripper/Scarifier

Front, V-Shape Carriage		
Working Width	1205 mm	47.4 in
Scarifying Depth, Maximum	467 mm	18.4 in
Scarifier Shank Holders		5/11
Scarifier Shank Holder Spacing	116 mm	4.6 in
Mid, V-Shape Carriage		
Working Width	1781 mm	70.1 in
Scarifying Depth, Maximum	292 mm	11.5 in
Scarifier Shank Holders		5
Scarifier Shank Holder Spacing	116 mm	4.6 in
Mid, Straight Carriage		
Working Width	2486 mm	97.9 in
Scarifying Depth, Maximum	283.8 mm	11.2 in
Scarifier Shank Holders		19
Scarifier Shank Holder Spacing	114.3 mm	4.5 in
Rear		
Ripping Depth, Maximum	288 mm	11.3 in
Ripper Shank Holders		5
Ripper Shank Holder Spacing	533 mm	21.0 in

## Standards

Rollover Protective Structure (ROPS)	ISO 3471:2008
Falling Objects Protective Structure (FOPS)	ISO 3449:2005 Level II
Brakes	ISO 3450:2011
Steering	ISO 5010:2019 (LVR)* ISO 5010:2019 (JOY)

\*When equipped with optional secondary steering

## Sound Standards

Sound	ISO 6395:2008 ISO 6396:2008
Spectator Sound Level	108 dB(A)
Operator Sound Level	75 dB(A)

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling for identification of the gas.
  - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.6 kg (3.5 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes (2.521 tons).

# 120 Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>POWERTRAIN</b>			<b>CAB</b>		
Cat® C7.1 engine	✓		Vinyl seat	✓	
Eco mode	✓		ROPS/FOPS		✓
Extreme duty starter		✓	Air suspension adjustable seat		✓
50°C (122°F) ambient capacity	✓		Leather heated/cooled seat		✓
Differential lock/unlock	✓		Seat belt, retractable	✓	
Engine idle shutdown timer	✓		Seat belt, indication		✓
Transmission, autoshift		✓	Seat belt, 4-point safety harness		✓
<b>MOLDBOARD</b>			203 mm (8 in) touchscreen monitor (JOY)	✓	
Standard drawbar circle moldboard	✓		254 mm (10 in) touchscreen display (LVR)	✓	
Circle drive slip clutch	✓		Canopy cab		✓
Circle saver		✓	Heating, ventilation, and air conditioning (HVAC) system		✓
Top adjust drawbar circle moldboard		✓	Defrost fans		✓
<b>ELECTRICAL</b>			Halogen lighting		✓
Sealed alternator	✓		Cup and bottle holders	✓	
Reversing lights	✓		Implement lockout		✓
Breaker panel	✓		Adjustable control console	✓	
900 CCA standard duty batteries		✓	Interior lights (dome lamp)	✓	
1,125 CCA heavy duty batteries	✓		LED lighting		✓
1,400 CCA extreme duty batteries		✓	Entertainment Radio Ready		✓
Electric starter	✓		Coat hook	✓	
			USB/Auxiliary Radio		✓
			Communication radio mounting		✓
			Steering wheel and lever controls	✓	
			Heated mirrors		✓
			Electric throttle control	✓	
			Front windshield wiper (with cabin)	✓	
			Front windshield wiper (lower)		✓
			Rear wiper		✓
			Rear window screen		✓
			Cab storage	✓	
			Slider side window		✓

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>SAFETY AND SECURITY</b>			<b>CAT TECHNOLOGY</b>		
Parking brake	✓		Stable Blade		✓
Back up alarm	✓		VisionLink™		✓
Signaling/warning horn	✓		Remote Services	✓	
Warning beacon		✓	<b>GUARDS</b>		
Rearview mirror	✓		Rear fenders		✓
Rearview camera		✓	Transmission		✓
Hydraulic brakes	✓		<b>ATTACHMENTS</b>		
Secondary steering system		✓	Push block		✓
Side view mirrors	✓		Ripper/scarifier		✓
Ground-level fuel fill		✓	Mid-machine scarifier		✓
<b>SERVICE AND MAINTENANCE</b>			Front lift group		✓
Grouped location for engine oil and fuel filters	✓		Front blade		✓
Extended Life Coolant	✓				
Reversing fan		✓			

# 120 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

## Engine

- The Cat® C7.1 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat diesel engines are required to be compatible with diesel fuel blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 100% 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.

*\*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.*

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. Refer to the machine labeling for identification of the gas.
  - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.6 kg (3.5 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 2.288 metric tonnes (2.521 tons).

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

## Sound Performance

Spectator Sound Level – Non-AWD (ISO 6395:2008)	108 dB(A)
Spectator Sound Level – AWD (ISO 6395:2008)	108 dB(A)
Operator Sound Level – Joystick (ISO 6396:2008)	75 dB(A)
Operator Sound Level – Lever/Steering Wheel (ISO 6396:2008)	75 dB(A)

- The dynamic spectator sound power level measurements are performed according to the dynamic test procedures that are specified in ISO 6395:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed. The machine was equipped with sound suppression system.
- The dynamic operator sound pressure level measurements are performed according to the dynamic test procedures that are specified in ISO 6396:2008. The measurements were conducted at 70% of the maximum engine cooling fan speed, with the cab doors and the cab windows closed. The cab was properly installed and maintained.

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Eco mode minimizes fuel consumption for light applications
  - 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 Grade helps reduce fuel burn and greenhouse gas emissions by enabling you to achieve grade faster and more accurately by automating blade actions
  - Cut maintenance costs up to 15% with extended service intervals next generation filters
  - Improve jobsite efficiency with lower operating costs with VisionLink™ insights



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

© 2026 Caterpillar  
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, VisionLink, their respective logos, "Caterpillar Corporate Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXQ4466-00 (02-2026)  
LVR Build Number 15A  
JOY Build Number 14A  
(Afr-ME, Eurasia, India,  
Indonesia, SE Asia, S Am)

