



Technical Specifications

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

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| Engine – Tier 3/Stage IIIA Equivalent | | | |
|--|--|-----------------------|--|
| Engine Model | Cat C7.1 | | |
| Emissions | Brazil MAR-1 emission standards, U.S. EPA Tier 3 and EU Stage IIIA equivalent | | |
| Base Net Power ISO 9249/SAE J1349 | 97 kW | 130 hp | |
| Base Net Power EEC 80/1269 (metric) | 132 hp | | |
| Power Range – Net | 97-116 kW | 130-156 hp | |
| Power Range – Net (metric) | 132-158 hp | | |
| All Wheel Drive Range – Net | 100-129 kW | 135-173 hp | |
| All Wheel Drive Range – Net (metric) | 137-176 hp | | |
| Bore | 105 mm | 4.1 in | |
| Displacement | 7.01 L | 427.8 in ³ | |
| Stroke | 135 mm | 5.3 in | |
| Engine RPM | 2,000 | | |
| Number of Cylinders | 6 | | |
| Torque Rise – ISO 9249 | 42% | | |
| Maximum Torque – ISO 9249 | 822 N·m | 606 lb-ft | |
| Maximum Torque (All-Wheel Drive On) | 828 N·m | 611 lb-ft | |
| Derating Altitude | 4500 m | 14,764 ft | |
| Derating Altitude AWD | 3000 m | 9,842 ft | |
| Maximum – Fan Speed | 1,300 rpm | | |
| Minimum – Fan Speed | 600 rpm | | |
| Ambient Capacity | 50° C | 122° F | |

• 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.

Engine – Tier 4 Final/Stage V

| Engine Model | C7.1 | |
|---|------------------------|-----------------------|
| Emissions | U.S. EPA Tier 4 Final/ | |
| | EU Stage V | |
| Base Net Power ISO 9249/SAE J1349 EEC 80/1269 | 104 kW | 140 hp |
| Base Net Power ISO 9249/SAE J1349 EEC 80/1269 (metric) | 142 hp | |
| Power Range – Net | 104-123 kW | 140-164 hp |
| Power Range – Net (metric) | 142-167 hp | |
| All Wheel Drive Range – Net | 108-141 kW | 144-189 hp |
| All Wheel Drive Range – Net (metric) | 146-192 hp | |
| Bore | 105 mm | 4.1 in |
| Displacement | 7.01 L | 427.8 in ³ |
| Stroke | 135 mm | 5.3 in |
| Engine RPM | 2,000 | |
| Number of Cylinders | 6 | |
| Torque Rise – ISO 9249 | 42% | |
| Maximum Torque – ISO 9249 | 822 N·m | 606 lb-ft |
| Maximum Torque (All-Wheel Drive On) | 828 N·m | 611 lb-ft |
| Derating Altitude | 3000 m | 9,842 ft |
| Derating Altitude AWD | 1676 m | 5,499 ft |
| Maximum – Fan Speed | 1,300 rpm | |
| Minimum – Fan Speed | 600 rpm | |
| Ambient Capacity | 50° C | 122° F |

• 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)*
- ✓ 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).

- Net Power is tested per ISO 9249, SAE J1349, and EEC 80/1269 Standards in effect at the time of manufacture.
- Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan, air cleaner, muffler, and alternator.
- VHP Plus is standard for the 120 and 120 all-wheel drive (AWD).
- Rated speed at 2,000 rpm.
- Biodiesel blends up to B30 (30% blend by volume) are acceptable when blended with 500 ppm (mg/kg) sulfur or less ULSD. B30 should meet ASTM D7467 specification (biodiesel blend should meet Cat biodiesel spec, ASTM D6751 or EN 14214). Cat DEO-ULS[™] or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.

| Gear | Non-AWD — kW (hp) | AWD Off – kW (hp) | AWD On – kW (hp) |
|---------|----------------------|----------------------|---------------------|
| Forward | | | |
| 1st | 97 (130) | 100 (135) | 101 (136) |
| 2nd | 97 (130) | 100 (135) | 101 (136) |
| 3rd | 101 (136) | 104 (140) | 107 (144) |
| 4th | 108 (145) | 111 (149) | 115 (155) |
| 5th | 112 (150) | 124 (167) | 128 (171) |
| 6th | 116 (156) | 129 (173) | 129 (173) |
| 7th | 116 (156) | 129 (173) | 129 (173) |
| 8th | 116 (156) | 129 (173) | 129 (173) |
| Reverse | | | |
| 1st | 97 (130) | 100 (135) | 101 (136) |
| 2nd | 97 (130) | 100 (135) | 101 (136) |
| 3rd-6th | 101 (135) | 104 (140) | 107 (144) |

120 Net Power – Tier 3/Stage IIIA Equivalent

120 Net Power – Tier 4 Final/Stage V

| Gear | Non-AWD – | AWD Off - | AWD On – |
|---------|-----------|-----------|-----------|
| doui | kW (hp) | kW (hp) | kW (hp) |
| Forward | | | |
| 1st | 104 (139) | 108 (145) | 109 (146) |
| 2nd | 107 (143) | 111 (149) | 114 (153) |
| 3rd | 110 (148) | 114 (153) | 120 (161) |
| 4th | 119 (160) | 122 (164) | 122 (164) |
| 5th | 123 (165) | 134 (180) | 141 (189) |
| 6th | 123 (165) | 134 (180) | 141 (189) |
| 7th | 123 (165) | 134 (180) | 141 (189) |
| 8th | 123 (165) | 134 (180) | 134 (180) |
| Reverse | | | |
| 1st | 104 (139) | 108 (145) | 109 (146) |
| 2nd | 107 (143) | 111 (149) | 114 (153) |
| 3rd-6th | 110 (148) | 114 (153) | 120 (161) |
| | | | |

| Powertrain | | |
|-------------------------------------|-----------------------------|-----------------|
| Forward/Reverse Gears | 8 Forward/6 Reverse | |
| Transmission | ansmission Direct Drive Pow | |
| | Countershaft | |
| High Idle Speed | 2,000 rpm | |
| Low Idle Speed | | |
| Tier 3 | 800 rpm | |
| Tier 4 | 1,030 rpm | |
| Air Cleaner | Dry | |
| Hydraulic System | | |
| Туре | Closed - Cent | er |
| Type Circuit | Parallel | |
| Pump Type | Variable Disp | lacement Piston |
| System Pressure | 24 129 kPa | 3500 psi |
| System Flow | 0-200 L/min | 0-53 gal/min |
| Operating Specifications | | |
| Top speed forward | 48.3 km/h | 30.1 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° Left and Right | |
| Articulation Angle | 20° Left and Right | |
| Front Wheel Lean | 18° Left and Right | |
| Total Oscillation | 32° | - |
| Front Wheel Lean* | 16° | |
| Total Oscillation* | 32° | |
| Forward | | |
| 1st | 4.1 km/h | 2.6 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 | 30.1 mph |
| Reverse | | |
| 1st | 3.3 km/h | 2.0 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 |

*Joystick - STD only

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

Base Machine Weight -

| Tier 3/Stage IIIA Equivalent | | |
|--------------------------------|-----------|-----------|
| Lever/Steering Wheel Weight | 13 899 kg | 30.642.1b |
| Front Axle: | 3603 kg | 7.943 lb |
| Rear Axle: | 10 296 kg | 22,698 lb |
| Joystick Weight | 14 247 kg | 31,409 lb |
| Front Axle: | 3796 kg | 8,368 lb |
| Rear Axle: | 10 451 kg | 23,041 lb |
| Lever/Steering Wheel All-Wheel | 14 459 kg | 31,876 lb |
| Drive (AWD) Weight | - | |
| Front Axle: | 3893 kg | 8,582 lb |
| Rear Axle: | 10 566 kg | 23,294 lb |
| Joystick All-Wheel Drive | 14 807 kg | 32,644 lb |
| (AWD) Weight | | |
| Front Axle: | 4086 kg | 9,008 lb |
| Rear Axle: | 10 721 kg | 23,636 lb |

Typically Equipped Machine Weight

| Lever/Steering Wheel Weight* | 15 803 kg | 34,839 lb |
|--------------------------------|-----------|-----------|
| Front Axle: | 4359 kg | 9,610 lb |
| Rear Axle: | 11 444 kg | 25,229 lb |
| Joystick Weight* | 16 246 kg | 35,816 lb |
| Front Axle: | 4608 kg | 10,159 lb |
| Rear Axle: | 11 638 kg | 25,657 lb |
| Lever/Steering Wheel All-Wheel | 16 556 kg | 36,499 lb |
| Drive (AWD) Weight* | | |
| Front Axle: | 4718 kg | 10,401 lb |
| Rear Axle: | 11 838 kg | 26,098 lb |
| Joystick All-Wheel Drive | 16 806 kg | 37,051 lb |
| (AWD) Weight* | | |
| Front Axle: | 4898 kg | 10,798 lb |
| Rear Axle: | 11 908 kg | 26,253 lb |
| | | |

Base Machine Weight – Tier 4 Final/Stage V

| Lever/Steering Wheel Weight | 14 272 kg | 31,464 lb |
|--------------------------------|-----------|-----------|
| Front Axle: | 3564 kg | 7,856 lb |
| Rear Axle: | 10 708 kg | 23,608 lb |
| Joystick Weight | 14 522 kg | 32,015 lb |
| Front Axle: | 3744 kg | 8,253 lb |
| Rear Axle: | 10 778 kg | 23,762 lb |
| Lever/Steering Wheel All-Wheel | 14 832 kg | 32,699 lb |
| Drive (AWD) Weight | | |
| Front Axle: | 3854 kg | 8,496 lb |
| Rear Axle: | 10 978 kg | 24,203 lb |
| Joystick All-Wheel Drive | 15 082 kg | 33,250 lb |
| (AWD) Weight | | |
| Front Axle: | 4034 kg | 8,893 lb |
| Rear Axle: | 11 048 kg | 24,357 lb |
| | | |

Typically Equipped Machine Weight

| Lever/Steering Wheel Weight* | 16 271 kg | 35,871 lb |
|--------------------------------|-----------|-----------|
| Front Axle: | 4372 kg | 9,637 lb |
| Rear Axle: | 11 899 kg | 26,234 lb |
| Joystick Weight* | 16 521 kg | 36,422 lb |
| Front Axle: | 4556 kg | 10,044 lb |
| Rear Axle: | 11 965 kg | 26,378 lb |
| Lever/Steering Wheel All-Wheel | 16 831 kg | 37,106 lb |
| Drive (AWD) Weight* | | |
| Front Axle: | 4666 kg | 10,287 lb |
| Rear Axle: | 12 165 kg | 26,819 lb |
| Joystick All-Wheel Drive | 17 081 kg | 37,657 lb |
| (AWD) Weight* | | |
| Front Axle: | 4846 kg | 10,683 lb |
| Rear Axle: | 12 235 kg | 26,973 lb |
| | | |

*Typically equipped includes 3.7 m (12') blade, 14.00R24 tires, push plate, ripper, bottom guard, operator, and full fluids.

Major Component Weights

| Moldboard (with cutting edge) | | |
|--|--------------------------------|----------------------------------|
| 3658 mm × 610 mm × 22 mm (12 ft × 24 in × 7/8 in) | 670 kg | 1,474 lb |
| 4267 mm × 610 mm × 22 mm (14 ft × 24 in × 7/8 in) | 782 kg | 1,720 lb |
| Guards | | |
| Transmission | 105 kg | 231 lb |
| Front Fender | 50 kg (AWD)/ 93 kg (STD) | 110 lb (AWD)/ 205 lb (STD) |
| Blade Extension | | |
| LH and RH – 152.4 wide, 15.9 thick cutting edge (each) | 113 kg | 249 lb |
| LH and RH – 203.2 wide, 19 thick cutting edge (each) | 127 kg | 280 lb |
| Mid-Mount Scarifier Package | 834 kg | 1,835 lb |
| Front Lift Group | 680 kg | 1,496 lb |
| Push Plate | 895 kg | 1,969 lb |
| Rear Ripper | 680 kg | 1,496 lb |
| Front Scarifier | 434 kg | 956 lb |

Service Refill Capacities

| • | | |
|--|--------|----------|
| Fuel Tank | 246 L | 65 gal |
| Circle Drive | 7 L | 1.8 gal |
| Engine Crankcase | 18 L | 4.8 gal |
| Cooling System | 52.5 L | 14 gal |
| Hydraulic System | 97 L | 25.6 gal |
| Diesel Exhaust Fluid Tank (Tier 4 only) | 11 L | 2.9 gal |
| Transmission and Differential | 60 L | 15.8 gal |
| Tandem | 60 L | 15.8 gal |
| Tandems | | |
| Oscillation Front Up | 15° | |
| Oscillation Rear Up | 22° | |

Service Brakes

| Type System | Dual Circuit Hydraulic | |
|----------------------------------|------------------------|-----------------------|
| Type Brake | Multiple Oil Disc | |
| Number of Brakes | 4 | |
| Number of Disc Assemblies (each) | 6 | |
| Size (outer diameter) | 270 mm | 10.6 in |
| Size (inner diameter) | 189 mm | 7.4 in |
| Lining Area Per Brake | 3504 cm ² | 543.1 in ² |
| | | |

| Parki | na | Bra | 20 |
|-----------|-----|-----|----|
| aini | IIY | Dia | КG |
| | | | |

| Type System | Hydraulic Actuated |
|-----------------------|----------------------|
| Type Brake | Multiple Oil Disc, |
| | Meets ISO 3450 |
| Slope Holding Ability | 30° |
| Secondary Brakes | Dual Circuit Control |
| | System, Applies Two |
| | Service Brakes |
| | |

Moldboard

| | Standard | | Option 1 | | Option 2 | |
|------------------|----------|---------|----------|---------|----------|---------|
| Width | 3.7 m | 12 ft | 3.7 m | 12 ft | 4.3 m | 14 ft |
| Height | 610 mm | 24 in | 610 mm | 24 in | 686 mm | 27 in |
| End Bit | 152 mm | 6 in | 152 mm | 6 in | 152 mm | 6 in |
| Cutting Edge | 152 mm | 6 in | 203 mm | 8 in | 203 mm | 8 in |
| Arc Radius | 413 mm | 16.3 in | 413 mm | 16.3 in | 413 mm | 16.3 in |
| Throat Clearance | 120 mm | 4.7 in | 124 mm | 4.9 in | 89 mm | 3.5 in |

Drawbar Circle Moldboard

| Range of Motion | Standard | | Top Adjust | |
|-------------------------------|--|-------------------|-----------------|---------|
| Lift Cylinders | 2 | | 2 | |
| Maximum Depth of Cut | 775 mm | 30.5 in | 775 mm | 30.5 in |
| Maximum Lift Above Ground | 410 mm | 16.1 in | 410 mm | 16.1 in |
| Throat Clearance | 120 mm | 4.7 in | 120 mm | 4.7 in |
| Circle Center Shift Cylinder | | | | |
| Center Shift Right | 656 mm | 25.8 in | 656 mm | 25.8 in |
| Center Shift Left | 656 mm | 25.8 in | 656 mm | 25.8 in |
| Moldboard Side Shift Cylinder | | | | |
| Side Shift Left | 660 mm | 26 in | 660 mm | 26 in |
| Side Shift Right | 510 mm | 20.1 in | 510 mm | 20.1 in |
| Blade Tip Cylinder | | | | |
| Maximum Blade Tip Forward | 40° | | 40° | |
| Maximum Blade Tip Backward | 5° | | 5° | |
| Circle Drive | 360° of Blade Rotation | | | |
| Link Bar | 7 Positions to adjust the drawbar circle moldboard range of motion | | range of motion | |
| Drawbar Shoes | 4 with replac | eable wear strips | | |

CircleSectionRolled Ring ForgingNumber of Teeth64Rotation360°

Blades – Tier 3/Stage IIIA Equivalent

| Lever/Steering Wheel Weight | | |
|--|-----------|-----------|
| Blade Pull Adv. Base Gross Vehicle Weight (GVW) | 9266 kg | 20,429 lb |
| Blade Down Force Adv. Base GVW | 6311 kg | 13,914 lb |
| Blade Pull Adv. Typically Equipped GVW | 10 299 kg | 22,706 lb |
| Blade Down Force Adv. Typically Equipped GVW | 7636 kg | 16,834 lb |
| Blade Pull Adv. Max GVW | 12 402 kg | 27,341 lb |
| Blade Down Force Adv. Max GVW | 10 895 kg | 24,019 lb |
| Lever/Steering Wheel All-Wheel Drive (AWD) | Weight | |
| Blade Pull Adv. Base GVW | 13 013 kg | 28,689 lb |
| Blade Down Force Adv. Base GVW | 6779 kg | 14,945 lb |
| Blade Pull Adv. Typically Equipped GVW | 14 900 kg | 32,849 lb |
| Blade Down Force Adv. Typically Equipped GVW | 8215 kg | 18,112 lb |
| Blade Pull Adv. Max GVW | 18 000 kg | 39,683 lb |
| Blade Down Force Adv. Max GVW | 10 831 kg | 23,878 lb |
| Joystick Weight | | |
| Blade Pull Adv. Base GVW | 9406 kg | 20,737 lb |
| Blade Down Force Adv. Base GVW | 6609 kg | 14,571 lb |
| Blade Pull Adv. Typically Equipped GVW | 10 474 kg | 23,092 lb |
| Blade Down Force Adv. Typically Equipped GVW | 8024 kg | 17,689 lb |
| Blade Pull Adv. Max GVW | 12 402 kg | 27,341 lb |
| Blade Down Force Adv. Max GVW | 10 895 kg | 24,019 lb |
| Joystick All-Wheel Drive (AWD) Weight | | |
| Blade Pull Adv. Base GVW | 13 326 kg | 29,379 lb |
| Blade Down Force Adv. Base GVW | 7114 kg | 15,684 lb |
| Blade Pull Adv. Typically Equipped GVW | 15 125 kg | 33,345 lb |
| Blade Down Force Adv. Typically Equipped GVW | 8529 kg | 18,803 lb |
| Blade Pull Adv. Max GVW | 18 000 kg | 39,683 lb |
| Blade Down Force Adv. Max GVW | 10 831 kg | 23,878 lb |

Blades – Tier 4 Final/Stage V

| Lever/Steering Wheel Weight | | |
|--|-----------|-----------|
| Blade Pull Adv. Base GVW | 9638 kg | 21,247 lb |
| Blade Down Force Adv. Base GVW | 6242 kg | 13,762 lb |
| Blade Pull Adv. Typically Equipped GVW | 10 710 kg | 23,610 lb |
| Blade Down Force Adv. Typically | 7657 kg | 16,881 lb |
| Equipped GVW | | |
| Blade Pull Adv. Max GVW | 12 402 kg | 27,341 lb |
| Blade Down Force Adv. Max GVW | 10 895 kg | 24,019 lb |
| Lever/Steering Wheel All-Wheel Drive (AWD) | Weight | |
| Blade Pull Adv. Base GVW | 13 349 kg | 29,429 lb |
| Blade Down Force Adv. Base GVW | 6710 kg | 14,794 lb |
| Blade Pull Adv. Typically Equipped GVW | 15 148 kg | 33,395 lb |
| Blade Down Force Adv. Typically | 8125 kg | 17,912 lb |
| Equipped GVW | | |
| Blade Pull Adv. Max GVW | 18 000 kg | 39,683 lb |
| Blade Down Force Adv. Max GVW | 10 831 kg | 23,878 lb |
| Joystick Weight | | |
| Blade Pull Adv. Base GVW | 9701 kg | 21,386 lb |
| Blade Down Force Adv. Base GVW | 6519 kg | 14,372 lb |
| Blade Pull Adv. Typically Equipped GVW | 10 769 kg | 23,740 lb |
| Blade Down Force Adv. Typically | 7933 kg | 17,490 lb |
| Equipped GVW | | |
| Blade Pull Adv. Max GVW | 12 402 kg | 27,341 lb |
| Blade Down Force Adv. Max GVW | 10 895 kg | 24,019 lb |
| Joystick All-Wheel Drive (AWD) Weight | | |
| Blade Pull Adv. Base GVW | 13 574 kg | 29,925 lb |
| Blade Down Force Adv. Base GVW | 7024 kg | 15,485 lb |
| Blade Pull Adv. Typically Equipped GVW | 15 373 kg | 33,891 lb |
| Blade Down Force Adv. Typically | 8438 kg | 18,603 lb |
| Equipped GVW | | |
| Blade Pull Adv. Max GVW | 18 000 kg | 39,683 lb |
| Blade Down Force Adv. Max GVW | 10 831 kg | 23,878 lb |
| | | |

Maximum Shoulder Reach Outside of Tires

| Blade | 3.7 m (12 ft) | | 4.3 m (14 ft) | |
|-------|---------------|---------|---------------|---------|
| Right | 1905 mm | 75 in | 2210 mm | 87 in |
| Left | 1742 mm | 68.6 in | 2180 mm | 85.8 in |

• An additional 300 mm (11.8 in) of reach can be achieved to the right or left by changing the side shift mounting bracket on the 4.3 m (14 ft) blade.

| Standards | |
|-----------|------------------------|
| ROPS | ISO 3471:2008 |
| FOPS | ISO 3449:2005 Level II |
| Brakes | ISO 3450:2011 |
| Steering | ISO 5010:2007 |

Sound Standards

| Sound | ISO 6395:2008 ISO 6396:2008 |
|---|--------------------------------|
| Spectator Sound Level – Non-AWD | 105 dB(A) |
| Spectator Sound Level – AWD | 106 dB(A) |
| Operator Sound Level – Joystick | 71 dB(A) |
| Operator Sound Level – Lever/ Steering Wheel | 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. The machine was equipped with sound suppression system.

Tier 3/Stage IIIA/India Bharat Stage III, and India CEV Stage V, with LVR tandem for India/APD

| Sound | ISO 6395:2008 |
|-------|---------------|
| | ISO 6396:2008 |

- The dynamic spectator sound power level is 107 dB(A). 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 not equipped with sound suppression.
- The dynamic operator sound pressure level is 75 dB(A). 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. The machine was not equipped with sound suppression.

Ripper

| •• | | |
|---|---------|-----------|
| Ripping Depth Maximum | 288 mm | 11.2 in |
| Ripper Shank Holder | 5 | |
| Ripper Shank Holder Spacing | 533 mm | 20.8 in |
| Penetration Force | 5119 kg | 11,287 lb |
| Pryout Force | 2029 kg | 4,474 lb |
| Machine Length Increase, Beam Raised | 900 mm | 35.1 in |

Mid Mount Scarifier

| Front, V-Type: Working Width | 1205 mm | 47.4 in |
|------------------------------|---------|---------|
| Number of Shanks | 11 | |
| Shank Spacing | 116 mm | 4.5 in |
| Scarifying Width | 1031 mm | 40.2 in |

Electrical

| Starting System Type | Direct Electric |
|-----------------------|-----------------|
| Heavy Duty Battery | |
| CCA at –18° | 1,125 amp |
| Volts | 12V |
| Quantity | 2 |
| Extreme Duty Battery | |
| CCA at –18° | 1,400 amp |
| Volts | 12V |
| Quantity | 2 |
| Standard Alternator | 145 amps at 24V |
| Heavy Duty Alternator | 150 amps at 24V |
| | |

Electrical – Tier 3/Stage IIIA Equivalent Lever

| Starting System Type | Direct Electric |
|--------------------------------|------------------------|
| Standard Duty Battery | Only offered on Levers |
| CCA at –18° | 900 amp |
| Volts | 12V |
| Quantity | 2 |
| Heavy Duty Battery | |
| CCA at –18° | 1,125 amp |
| Volts | 12V |
| Quantity | 2 |
| Extreme Duty Battery | |
| CCA at –18° | 1,400 amp |
| Volts | 12V |
| Quantity | 2 |
| Standard Alternator – Levers | 115 amps at 24V |
| Standard Alternator – Joystick | 145 amps at 24V |
| Heavy Duty Alternator | 150 amps at 24V |

Dimensions

All dimensions are approximate.



| 1 Height – Top of Cab | 3465 mm | 136.4 in |
|---|---------|----------|
| 2 Height | | |
| Front Axle Center (Non AWD) | 590 mm | 23.2 in |
| Front Axle Center (AWD) | 596 mm | 23.5 in |
| 3 Length – Between Tandem Axles | 1510 mm | 59.5 in |
| 4 Length | | |
| Front Axle to Moldboard (Non AWD) | 2551 mm | 100.4 in |
| Length – Front Axle to Moldboard (AWD) | 2516 mm | 99 in |
| 5 Length | | |
| Front Axle to Mid Tandem (Non AWD) | 5945 mm | 234 in |
| Front Awd Axle to Mid Tandem (AWD) | 5910 mm | 232.7 in |
| 6 Length | | |
| Front Tire to Rear of Machine (Non AWD) | 8534 mm | 336 in |
| Front Tire to Rear of Machine (AWD) | 8499 mm | 334.6 in |
| 7 Length – Push Plate to Ripper | 9838 mm | 387 in |
| 8 Ground Clearance at Rear Axle | 349 mm | 13.7 in |

| 9 | Height to Top of Cylinders | 2895 mm | 114 in |
|----|---|---------|----------|
| 10 | Height to Exhaust Stack | 3185 mm | 125.4 in |
| | Height to Exhaust Stack (Tier 3) | 2924 mm | 115 in |
| 11 | Width – Tire Center Lines | 2070 mm | 81.5 in |
| 12 | Width – Outside Rear Tires | 2491 mm | 98 in |
| 13 | Width | | |
| | Outside Front Tires (Non AWD) | 2495 mm | 98.2 in |
| | Outside Front Tires (AWD) | 2638 mm | 103.9 in |
| 14 | Maximum Height – with Attachments | 3440 mm | 135.4 in |
| 15 | Length – Push Plate to Raised Ripper | 9583 mm | 377 in |
| 16 | Width – Inside Rear Tires | 1649 mm | 64.9 in |
| 17 | Length | | |
| | Front Axle to Articulation Hitch (Non AWD) | 5284 mm | 208 in |
| | Front Axle to Articulation Hitch (AWD) | 5249 mm | 206.7 in |
| 18 | Length – Rear Axle to Articulation Hitch | 660 mm | 26 in |
| 19 | Length – Rear Axle to Rear of Frame | 1726 mm | 68 in |
| 20 | Height – Tire Deflection at Performance Weight | 45 mm | 1.8 in |

Optional Tire Arrangements

| Rim Size | Wheel Group | Tires |
|----------------|--------------|----------|
| 9×24 | Single-Piece | 13.00-24 |
| 9×24 | Single-Piece | 14.00-24 |
| 10×24 | Multi-Piece | 13.00-24 |
| 10×24 | Multi-Piece | 14.00-24 |
| 10×24 | Multi-Piece | 14.00-24 |
| 13×25 | Single-Piece | 17.5R25 |
| 14×25 | Multi-Piece | 14.00R24 |
| 14×25 | Multi-Piece | 17.5R25 |
| 14×25 | Multi-Piece | 17.5-25 |

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

Standard and Optional Equipment

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

| | Standard | Optional |
|---|--------------|--------------|
| POWER TRAIN | | |
| Cat C7.1 engine | \checkmark | |
| Eco mode | ✓ | |
| Extreme duty starter | | \checkmark |
| 50° C (122° F) ambient capacity | ✓ | |
| 43° C (109° F) ambient capacity – all wheel drive | ✓ | |
| All-Wheel Drive (AWD) | | \checkmark |
| Differential lock/unlock | \checkmark | |
| Engine idle shutdown timer | \checkmark | |
| Hydraulic demand fan | \checkmark | |
| Reversing fan | | \checkmark |
| Biodiesel capability up to B30 | \checkmark | |
| Transmission, autoshift* | \checkmark | |
| *Optional on lever machines. | | |
| MOLDBOARD | | |
| Standard drawbar circle moldboard | \checkmark | |
| Circle drive slip clutch | \checkmark | |
| Top adjust drawbar circle moldboard | | \checkmark |
| Circle saver | | \checkmark |
| ELECTRICAL | | |
| Sealed alternator | \checkmark | |
| Reversing lights | \checkmark | |
| Breaker panel | \checkmark | |
| 900 CCA standard duty batteries* | \checkmark | |
| 1,125 CCA heavy duty batteries | \checkmark | |
| 1,400 CCA extreme duty batteries | | \checkmark |
| Electric starter | \checkmark | |

*Available on T3 Lever machines only (1,125 and 1,400 CCA are optional).

(continued on next page)

Standard and Optional Equipment (continued)

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

| | Lever/Steering Wheel | | Joystick | |
|--|----------------------|--------------|--------------|--------------|
| | Standard | Optional | Standard | Optional |
| CAB | | | | - |
| Vinyl seat | ✓ | | N/A | N/A |
| ROPS/FOPS | \checkmark | | \checkmark | |
| Air suspension adjustable seat | | \checkmark | \checkmark | |
| Leather heated/cooled seat | | \checkmark | | \checkmark |
| Seat belt, retractable | \checkmark | | \checkmark | |
| Seat belt, indication | | \checkmark | \checkmark | |
| 203 mm (8 in) touchscreen monitor | | \checkmark | \checkmark | |
| 254 mm (10 in) hybrid information display | \checkmark | | N/A | N/A |
| Canopy cab (T3 lever only) | | \checkmark | N/A | N/A |
| Heating, ventilation, and air conditioning (HVAC) system | | \checkmark | \checkmark | |
| Defrost fans | | \checkmark | \checkmark | |
| Halogen lighting | | \checkmark | | \checkmark |
| Cup and bottle holders | \checkmark | | \checkmark | |
| Implement lockout | | \checkmark | \checkmark | |
| Adjustable control console | \checkmark | | \checkmark | |
| Interior lights (dome lamp) | \checkmark | | \checkmark | |
| LED lighting | | \checkmark | | \checkmark |
| Entertainment Radio Ready | | \checkmark | \checkmark | |
| Coat hook | \checkmark | | \checkmark | |
| USB/Auxiliary Radio | | \checkmark | | \checkmark |
| Joystick controls | | N/A | \checkmark | |
| Communication radio mounting | | \checkmark | | \checkmark |
| Steering wheel and lever controls | \checkmark | | N/A | |
| Heated mirrors | | \checkmark | | \checkmark |
| Electric throttle control | \checkmark | | \checkmark | |
| Front windshield wiper | \checkmark | | \checkmark | |
| Front windshield wiper (lower) | | \checkmark | N/A | N/A |
| Rear wiper | | \checkmark | | ✓ |
| Rear window screen | | \checkmark | | ✓ |
| Cab storage | \checkmark | | \checkmark | |
| Side window wipers | N/A | N/A | | ✓ |
| Slider side window | | ✓ | | \checkmark |

(continued on next page)

Standard and Optional Equipment (continued)

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

| | Standard | Optional |
|--|--------------|--------------|
| SAFETY AND SECURITY | | |
| Parking brake | \checkmark | |
| Back up alarm | \checkmark | |
| Ground level fuel fill* | | \checkmark |
| Signaling/warning horn | \checkmark | |
| Warning beacon | | \checkmark |
| Rearview mirror | \checkmark | |
| Rearview camera | | \checkmark |
| Hydraulic brakes | \checkmark | |
| Secondary steering system | \checkmark | |
| Side view mirrors | \checkmark | |
| Strategically placed walkways and grab rails | \checkmark | |
| *Standard for North America and Europe. | | |
| SERVICE AND MAINTENANCE | | |
| Ground level DEF fill – Tier 4 Final/Stage V | \checkmark | |
| Grouped location for engine oil and fuel filters | \checkmark | |
| Extended Life Coolant | \checkmark | |
| CAT TECHNOLOGY | | |
| Cat Grade with Digital Blade Slope Meter | | \checkmark |
| Cat Grade with Cross Slope Indicate | | \checkmark |
| Cat Grade with Cross Slope | | \checkmark |
| Cat Grade Attachment Ready Option (ARO) | | \checkmark |
| Stable blade | | \checkmark |
| Product Link [™] * | \checkmark | |
| Remote services | | ✓ |
| *Optional on Lever models. | | |
| GUARDS | | |
| Front fenders* | | ✓ |
| Rear fenders | | ✓ |
| Front axle guard for all-wheel drive | | ✓ |
| Transmission | | \checkmark |
| Cover, under cab platform | | \checkmark |
| *Not available for lever and steering wheel tandem machines. | | |
| ATTACHMENTS | | |
| Push block | | \checkmark |
| Ripper | | ✓ |
| Scarifier | | ✓ |
| Mid mount scarifier | | \checkmark |
| Front lift group | | \checkmark |
| Front blade | | \checkmark |

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 engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards or Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat U.S. EPA Tier 4 Final and EU Stage V 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)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Cat engines meeting Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA, 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.

- *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).
- **For use of blends higher than 20% biodiesel, consult your Cat dealer.

Air Conditioning System

• The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO2 equivalent of 2.288 metric tonnes (2.522 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) | 105 dB(A) |
|---|-----------|
| Spectator Sound Level – AWD (ISO 6395:2008) | 106 dB(A) |
| Operator Sound Level – Joystick (ISO 6396:2008) | 71 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. The machine was equipped with sound suppression system.

Tier 3/Stage IIIA/India Bharat Stage III, and India CEV Stage V, with LVR tandem for India/APD:

| Spectator Sound Level (ISO 6395:2008) | 107 dB(A) |
|---------------------------------------|-----------|
| Operator Sound Level (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 not 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. The machine was not equipped with sound suppression system.

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 Product Link[™] and VisionLink[®] insights



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