



160

Motor Grader

Technical Specifications

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

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160 Motor Grader Specifications

Engine

Engine Model	Cat® C9.3	
Emissions	U.S. EPA Tier 4 Final/EU Stage V	
Base Power (1st gear) – Net	165 kW	221 hp
Base Power (1st gear) – Net (Metric)	224 hp	
VHP Plus Range – Net	165-203 kW	221-272 hp
VHP Plus Range – Net (Metric)	224-276 hp	
AWD Range – Net	172-219 kW	231-293 hp
AWD Range – Net (Metric)	234-298 hp	
Displacement	9.3 L	567.5 in ³
Bore	115 mm	4.5 in
Stroke	149 mm	5.9 in
Torque Rise	39%	
Maximum Torque (VHP Plus)	1355 N·m	1,000 lb·ft
Maximum Torque (AWD On)	1464 N·m	1,079 lb·ft
Speed @ Rated Power	2,000 rpm	
Number of Cylinders	6	
Derating Altitude	3050 m	10,000 ft
High Ambient – Fan Speed		
Standard	1,400 rpm	
Maximum	1,550 rpm	
Minimum	500 rpm	
Standard Capability	43° C	109° F
High Ambient Capability	50° C	122° F

Gear – Net Power	VHP Plus kW (hp)	AWD Off kW (hp)	AWD On kW (hp)
Forward			
1st	165 (221)	172 (231)	180 (241)
2nd	172 (231)	180 (241)	195 (262)
3rd	180 (241)	188 (252)	199 (267)
4th	188 (252)	191 (257)	203 (272)
5th	191 (257)	195 (262)	219 (293)
6th	195 (262)	199 (267)	219 (293)
7th	199 (267)	203 (272)	219 (293)
8th	203 (272)	203 (272)	219 (293)
Reverse			
1st	165 (221)	165 (221)	165 (221)
2nd	172 (231)	172 (231)	172 (231)
3rd–6th	180 (241)	180 (241)	180 (241)

Engine (cont'd)

- Net power is tested per ISO 9249, SAE J1349, and EEC 80/1269 standards in effect at the time of manufacture.
- VHP Plus is standard for the 160/160 AWD.
- Net power advertised is the power available at rated speed of 2,000 rpm, measured at the flywheel when engine is equipped with fan running at minimum speed, air cleaner, aftertreatment, and alternator.
- No engine derating required up to 3050 m (10,000 ft).
- Power as declared per ISO 14396
Rated rpm 2,000
VHP+ = 204 kW (274 hp)
AWD = 220 kW (295 hp)
- 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).
- ** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
- 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.
- Cat engines equipped with a Selective Catalytic Reduction (SCR) system are required to use:
 - Diesel Exhaust Fluid (DEF) which meets the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

Powertrain

Forward/Reverse Gears	8 Forward/6 Reverse
Transmission	APECS, Direct Drive, Powershift
Brakes	
Service	Multiple Oil Disc
Service, Surface Area	23 000 cm ² 3,565 in ²
Parking	Multiple Oil Disc
Secondary	Dual Circuit Control

Hydraulic System

Circuit Type	Parallel
Pump Type	Variable Piston
Pump Output	210 L/min 55.5 gal/min
Maximum System Pressure	24 150 kPa 3,503 psi
Reservoir Tank Capacity	64.0 L 16.9 gal
Standby Pressure	6100 kPa 885 psi

- Pump output measured at 2,150 rpm.

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Operating Specifications

Top Speed		
Forward	47.4 km/h	29.5 mph
Reverse	37.4 km/h	23.3 mph
Turning Radius, Outside Front Tires		
	7.8 m	25 ft 7 in
Steering Range – Left/Right		
	50°	
Articulation Angle – Left/Right		
	20°	
Forward		
1st	4.1 km/h	2.6 mph
2nd	5.6 km/h	3.5 mph
3rd	8.1 km/h	5.1 mph
4th	11.2 km/h	7.0 mph
5th	17.4 km/h	10.8 mph
6th	23.7 km/h	14.7 mph
7th	32.6 km/h	20.3 mph
8th	47.4 km/h	29.5 mph
Reverse		
1st	3.3 km/h	2.0 mph
2nd	6.1 km/h	3.8 mph
3rd	8.8 km/h	5.5 mph
4th	13.7 km/h	8.5 mph
5th	25.7 km/h	16.0 mph
6th	37.4 km/h	23.3 mph

• Calculated with no slip and 14.0R24 tires.

Service Refill

Fuel Capacity	394 L	104 gal
Cooling System	57.0 L	15.0 gal
Hydraulic System		
Total	100 L	26.4 gal
Tank	64.0 L	16.9 gal
Engine Oil	30.0 L	7.9 gal
Trans./Diff./Final Drives	70.0 L	18.5 gal
Tandem Housing (Each)	87.0 L	22.9 gal
Front Wheel Spindle Bearing Housing	0.5 L	0.13 gal
Circle Drive Housing	7.0 L	1.8 gal
Diesel Exhaust Fluid	22.0 L	5.8 gal

Frame

Circle		
Diameter	1553 mm	61.1 in
Height	160 mm	6.3 in
Blade Beam Thickness	40.0 mm	1.6 in
Drawbar		
Height	152 mm	6.0 in
Width	76.2 mm	3.0 in
Thickness	12.7 mm	0.50 in
Front-Top/Bottom Plate		
Width	305 mm	12.0 in
Thickness	22.0 mm	0.87 in
Front Frame Structure		
Height	321 mm	12.6 in
Width	305 mm	12.0 in
Front Axle		
Height to Center	596 mm	23.5 in
Wheel Lean, Left/Right	18°	
Total Oscillation per Side	32°	

• Front-top/bottom plate – width tolerance ± 2.5 mm (0.098 in).

Tandems

Height	572 mm	22.5 in
Width	204 mm	8.0 in
Sidewall Thickness		
Inner	17.5 mm	0.69 in
Outer	18.0 mm	0.71 in
Drive Chain Pitch	50.8 mm	2.0 in
Wheel Axle Spacing	1523 mm	60.0 in
Tandem Oscillation		
Front Up	15°	
Front Down	25°	

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Moldboard

Blade Width	4.2 m	14 ft
Moldboard		
Height	610 mm	24.0 in
Thickness	22.0 mm	0.87 in
Arc Radius	413 mm	16.3 in
Throat Clearance	166 mm	6.5 in
Cutting Edge		
Width	152 mm	6.0 in
Thickness	16.0 mm	0.60 in
End Bit		
Width	152 mm	6.0 in
Thickness	16.0 mm	0.60 in
Blade Pull		
Base GVW	11 762 kg	25,931 lb
Maximum GVW	15 541 kg	34,262 lb
Base GVW (AWD)	16 700 kg	36,817 lb
Maximum GVW (AWD)	22 512 kg	49,630 lb
Blade Down Pressure		
Base GVW	7713 kg	17,004 lb
Maximum GVW	13 294 kg	29,308 lb
Base GVW (AWD)	8589 kg	18,935 lb
Maximum GVW (AWD)	13 294 kg	29,308 lb

Blade Range

Circle Centershift		
Right	728 mm	28.7 in
Left	695 mm	27.4 in
Moldboard Sideshift		
Right	660 mm	26.0 in
Left	510 mm	20.1 in
Maximum Blade Position Angle	90°	
Blade Tip Range		
Forward	40°	
Backward	5°	
Maximum Shoulder Reach Outside of Tires		
Right	2278 mm	89.7 in
Left	2090 mm	82.3 in
Maximum Lift Above Ground	452 mm	17.8 in
Maximum Depth of Cut	750 mm	29.5 in

Ripper

Ripping Depth, Maximum	426 mm	16.8 in
Ripper Shank Holders	5	
Ripper Shank Holder Spacing	533 mm	21.0 in
Penetration Force	9440 kg	20,812 lb
Pryout Force	12 924 kg	28,493 lb
Machine Length Increase, Beam Raised	1031 mm	40.6 in

Scarifier

Front, V-Type: Working Width	1205 mm	47.4 in
Front, V-Type, 5 or 11 Tooth		
Working Width	1031 mm	40.6 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-Type		
Working Width	1184 mm	46.6 in
Scarifying Depth, Maximum	292 mm	11.5 in
Scarifier Shank Holders	11	
Scarifier Shank Holder Spacing	116 mm	4.6 in
Rear		
Working Width	2133 mm	84.0 in
Scarifying Depth, Maximum	426 mm	16.8 in
Scarifier Shank Holders	9	
Scarifier Shank Holder Spacing	267 mm	10.5 in

Weights

Gross Vehicle Weight, Base		
Total	17 563 kg	38,719 lb
Front Axle	4494 kg	9,907 lb
Rear Axle	13 069 kg	28,812 lb
Gross Vehicle Weight, Maximum		
Total	25 013 kg	55,144 lb
Front Axle	7745 kg	17,075 lb
Rear Axle	17 268 kg	38,069 lb
Operating Weight, Typically Equipped		
Total	20 660 kg	45,547 lb
Front Axle	6004 kg	13,237 lb
Rear Axle	14 656 kg	32,310 lb

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Weights – AWD

Gross Vehicle Weight, Base

Total	18 555 kg	40,908 lb
Front Axle	5004 kg	11,033 lb
Rear Axle	13 551 kg	29,875 lb

Gross Vehicle Weight, Maximum

Total	25 013 kg	55,144 lb
Front Axle	7745 kg	17,075 lb
Rear Axle	17 268 kg	38,069 lb

Operating Weight, Typically Equipped

Total	21 552 kg	47,514 lb
Front Axle	6481 kg	14,289 lb
Rear Axle	15 071 kg	33,225 lb

- Base operating weight on standard machine configuration is calculated with full fuel tank, coolant, lubricants, operator and 14.0R24 tires with multipiece (MP) rims.
- Typically equipped operating weight is calculated with push block, transmission guard, rear ripper/scarifier, 17.5R25 tires with multipiece (MP) rims, and other equipment.

Standards

Rollover Protective Structure (ROPS)/Falling Objects Protective Structure (FOPS) ISO 3471; ISO 3449

Steering ISO 5010

Brakes ISO 3450

Sound ISO 6396; ISO 6395

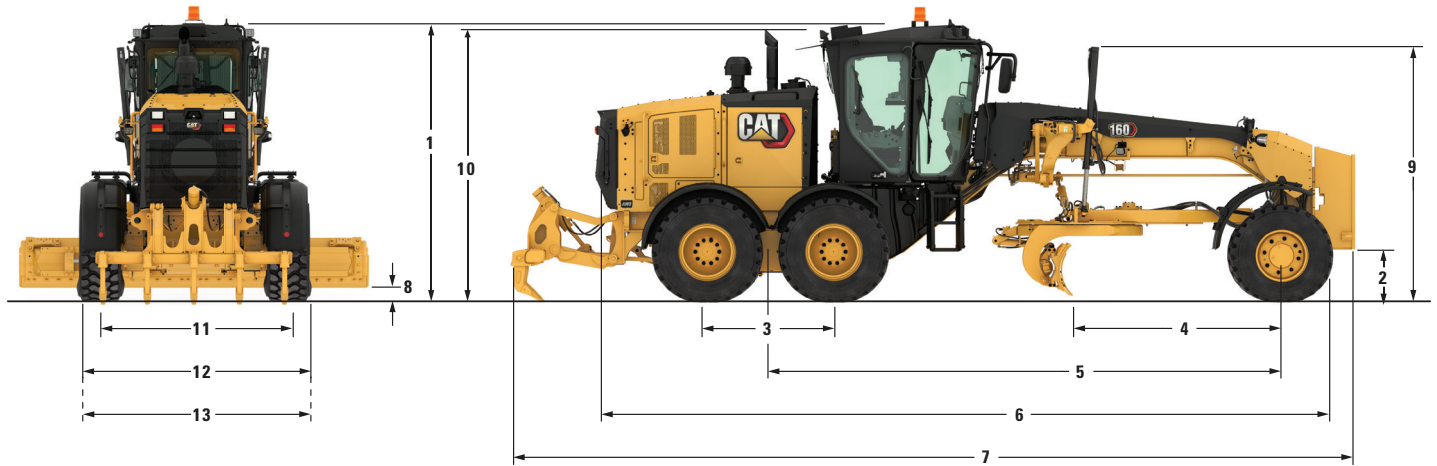
- The declared dynamic operator sound pressure level is 71 dB(A) for the 160 and 160 AWD when “ISO 6396:2008” is used to measure the value for a European Union “CE” marked machine. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 107 dB(A) for the 160 and 108 dB(A) for the 160 AWD when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted for a European Union “CE” marked machine at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds and during diesel particulate filter regeneration.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.
- If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO₂ equivalent of 2.717 metric tonnes (2.994 tons).

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Dimensions



160/160 AWD

	mm	in
1 Height – Top of Cab	3308	130
2 Height – Front Axle Center	596	23.5
3 Length – Between Tandem Axles	1523	60.0
4 Length – Front Axle to Moldboard	2552	100
5 Length – Front Axle to Mid Tandem	6123	241
6 Length – Front Tire to Rear of Machine	8912	351
7 Length – Counterweight to Ripper	10 136	399
8 Ground Clearance at Rear Axle	339	13.3
9 Height to Top of Cylinders	3040	120
10 Height to Exhaust Stack	3256	128
11 Width – Tire Center Lines	2140	84.3
12 Width – Outside Rear Tires	2511	98.9
13 Width – Outside Front Tires	2511	98.9

• Calculated with 14.0R24 Tires.

Optional Tire Arrangements

Common Tire Options

160/160 AWD

Rim Size	Wheel Group	Tires
9 × 24	Single Piece	14.0R24
13 × 25	Single Piece	17.5R25
10 × 24	Multipiece	14.0R24
10 × 24	Multipiece	14.0-24
14 × 25	Multipiece	17.5R25
14 × 25	Multipiece	17.5-25

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

160 Motor Grader Specifications

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWERTRAIN			MOLDBOARD		
Air cleaner, dual stage, dry type, diesel, with automatic engine derate and automatic dust ejector, service indicator through Cat Messenger	✓		Standard drawbar circle moldboard	✓	
Air-to-air after cooler (ATAAC)	✓		Circle drive slip clutch	✓	
All wheel drive		✓	Circle saver		✓
Belt, serpentine, automatic tensioner	✓		Top adjust drawbar circle moldboard		✓
Brakes, oil disc, four-wheel, hydraulic	✓		ELECTRICAL		
Demand fan, hydraulic, swing-out	✓		Alarm, back up	✓	
Diesel exhaust fluid tank, 22.0 L (5.8 gal) ground level access, and sediment drain	✓		Alternator, 150 ampere, sealed	✓	
Differential lock/unlock, automatic	✓		Breaker panel, ground accessible	✓	
Drain, engine oil, ecology	✓		1,125 CCA heavy duty batteries	✓	
Economy mode	✓		1,400 CCA extreme duty batteries		✓
Electronic overspeed protection	✓		Lights, roof-mounted roading, reversing, LED stop and tail	✓	
Engine, C9.3, Tier 4 Final/Stage V emission standards	✓		Grade Control Ready – Cab harness, software, electrical hydraulic valves, bosses and brackets	✓	
Fuel tank, 394 L (104 gal), ground level access and sediment drain	✓		Product Link™	✓	
Parking brake – multi-disc, sealed, oil-cooled	✓		Alternator, 280 ampere		✓
Precleaner, snow		✓	Cab harness and electrical hydraulic valves	✓	
Priming pump, fuel	✓		Electrical system, 24V	✓	
Rear axle, modular	✓		Electric starter	✓	
Sediment drain, fuel tank	✓		Lights: Headlights, high; Headlights, low; Working lights, basic; Working lights, plus, LED; Warning: beacon or strobe; Mounting for warning light		✓
Starter, extreme duty, 1,000 amps		✓			
Tandem drive	✓				
Transmission, autoshift		✓			
Transmission, 8F/6R, powershift, direct drive, Advanced Productivity Electronic Control Strategy (APECS)	✓				
50°C (122°F) ambient capacity	✓				
Reversing fan		✓			
Engine idle shutdown timer	✓				

(continued on next page)

160 Motor Grader Specifications

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			OTHER		
Accelerator	✓		Accumulators, brake, dual certified	✓	
Air conditioning with heater	✓		Anti-glare paint	✓	
Arm and wrist rest, electronically adjustable	✓		Bumper, rear, integrated with hitch	✓	
Articulation, automatic Return-to-Center	✓		CD-ROM Parts Book	✓	
Cat Messenger operator information system	✓		Clutch, circle drive slip	✓	
Centershift pin indicator	✓		Cutting edges: 152 × 16 mm (6 × 5/8 in); curved DH-2 steel; 19 mm (3/4 in) mounting bolts	✓	
Display, digital speed and gear	✓		Doors (3), engine compartment, locking	✓	
Doors, left and right side with wiper	✓		Drawbar – 6 shoes, replaceable wear strips	✓	
Gauge, machine level	✓		Electrical hydraulic valves, hydraulic lines for base 8 functions	✓	
Gauge cluster (analog) – fuel, articulation, engine coolant temp, engine RPM, hydraulic oil temp, regen, DEF	✓		Endbits: 16 mm (5/8 in) DH-2 steel; 19 mm (3/4 in) mounting bolts	✓	
Hour meter, digital	✓		Fluid check, ground level	✓	
Joystick hydraulic controls right/left blade lift with float position, circle drive, blade sideshift and tip, centershift, front wheel lean, articulation and power steering	✓		Frame, articulated, with safety lock	✓	
Joystick, adjustable armrests	✓		Ground level engine shutdown	✓	
Joystick gear selection	✓		Hammer (emergency exit)	✓	
Joystick hydraulic power steering	✓		Horn, electric	✓	
Ladders, cab, left and right side	✓		Hydraulic lines for base functions	✓	
Lights, night time cab	✓		Lockout, hydraulic implement (for roading and servicing)	✓	
Mirror, inside rearview, wide angle	✓		Mounting, cab roof accessories	✓	
Power port, 12V	✓		Pump, hydraulic, high capacity, 98 cm ³ (6 in ³)	✓	
ROPS cab, sound suppressed 70 dB(A)	✓		Radiator, cleanout access (both sides with swing doors)	✓	
Seat, cloth-covered, comfort suspension	✓		Secondary steering	✓	
Windows, laminated glass: fixed front with intermittent wiper; door with intermittent wipers (3)	✓		Serviceability, LH side	✓	
Windows: tempered; left and right side wipers; rear and intermittent wiper	✓		Scheduled oil sampling (S·O·S SM) ports: engine, hydraulic, transmission, coolant, fuel	✓	
Mirrors, outside: heated 24V; mounted		✓	Tandem walkway/guards	✓	
Comfort Plus arrangement		✓	Tool box	✓	
Comfort Premium arrangement		✓	Auto Articulate		✓
SERVICE AND MAINTENANCE			Accumulators, blade lift		✓
Grouped location for engine oil and fuel filters	✓		Drain, ecology, engine Wiggins		✓
Extended Life Coolant	✓		Heater, engine coolant: 120V; 240V		✓
Radiator, cleanout access	✓				
FLUIDS					
Antifreeze	✓				
TIRES, RIMS AND WHEELS					
Partial allowance for tires on 254 × 607 mm (10 × 24 in) multi-piece rims is included in the base machine price and weight	✓				

(continued on next page)

160 Motor Grader Specifications

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
OTHER (CONTINUED)			CAT TECHNOLOGY		
Hydraulic arrangements with one or more additional hydraulic valves are available for rear ripper, dozer, snow plow and snow wing		✓	Stable Blade		✓
Snow wing mounting, frame ready		✓	Product Link	✓	
Starting aid, ether		✓	Remote Services	✓	
Reversing fan, automatic or manual		✓	Cat Grade with Cross Slope		✓
WORK TOOLS/G.E.T.			Cat Grade with Cross Slope Indicate		✓
Blade extension, left hand, 610 mm (2 ft)		✓	Cat Grade with 3D		✓
Blade extension, right hand, 610 mm (2 ft)		✓	Digital blade slope meter		✓
Cutting edges, curved		✓	Cat Grade Attachment Ready Option (ARO)		✓
Endbits, overlay		✓	SAFETY AND SECURITY		
Grader bit, narrow and super penetration		✓	Parking brake	✓	
Moldboard: 4267 mm × 610 mm × 22 mm (14 ft × 24 in × 7/8 in)		✓	Back up alarm	✓	
Moldboard: 4267 mm × 686 mm × 25 mm (14 ft × 27 in × 1 in)		✓	Signaling/warning horn	✓	
Moldboard: 4877 mm × 686 mm × 25 mm (16 ft × 27 in × 1 in)		✓	Warning beacon		✓
Push plate		✓	Rearview mirror	✓	
Ripper, rear		✓	Rearview camera		✓
Ripper tooth		✓	Hydraulic brakes	✓	
Scarifier, front		✓	Secondary steering system		✓
Snow arrangement		✓	Side view mirrors	✓	
Snow Wing Ready Package		✓	Strategically placed walkways and grab rails	✓	
Tow hitch		✓	Ground level fuel fill		✓
GUARDS			ATTACHMENTS AVAILABLE FROM FACTORY		
Articulation guard		✓	Push block		✓
Cover, under cab platform		✓	Ripper		✓
Fenders, front		✓	Scarifier		✓
Fenders, front, AWD		✓	Front lift group		✓
Fenders, rear		✓	ADDITIONAL ATTACHMENTS		
Front axle guard		✓	Snow wings		✓
Sound suppression (bottom)		✓	Plows		✓
Sound suppression (enclosure)		✓	Blades		✓
Transmission		✓	Blade extensions		✓
			Brooms		✓

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.html>.

Engine

- The Cat® C9.3 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- 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).
 - ** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
- Cat engines equipped with a Selective Catalytic Reduction (SCR) system are required to use:
 - Diesel Exhaust Fluid (DEF) which meets the requirements outlined in the International Organization for Standardization (ISO) standard 22241-1.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.
- If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO₂ equivalent of 2.717 metric tonnes (2.994 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

- The declared dynamic operator sound pressure level is 71 dB(A) for the 140 and 140 AWD when "ISO 6396:2008" is used to measure the value for a European Union "CE" marked machine. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
- The declared exterior sound power level is 107 dB(A) for the 140 and 140 AWD when the value is measured according to the dynamic test procedures and the conditions that are specified in "ISO 6395:2008." The measurement was conducted for a European Union "CE" marked machine at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds and during diesel particulate filter regeneration.

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.
 - Autodig with auto set tires provides consistent high bucket fill factors for up to 10% more productivity
 - 5-speed advanced powershift transmission, including a lock-up clutch torque converter, delivers smooth shifting, fast acceleration, and speed on grade, amplifying your performance and fuel efficiency
 - Reliable fuel systems boost machine performance and fuel economy, lowering overall costs and fuel consumption
 - Automatic engine idle shutdown system reduces idle hours
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	70.45
Iron	15.15
Nonferrous Metal	3.16
Mixed Metal	0.04
Mixed Metal and Nonmetal	3.52
Plastic	1.05
Rubber	0.23
Mixed Nonmetallic	0.21
Fluid	0.54
Other	0.63
Uncategorized	5.02
Total	100

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance end-of-life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com.

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

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