

## Montana Department of Transportation Bridge Bureau Approved Construction Equipment List

<b>Make:</b>	<i>Caterpillar</i>
<b>Model:</b>	<i>D8-T</i>
<b>Equipment Type:</b>	<i>Dozer</i>
<b>Contractor Modifications:</b>	<i>None</i>

### Interstate Approval Conditions

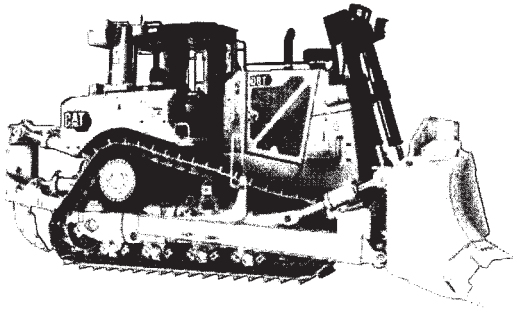
<i>Approval Type</i>	<i>Crossing Only</i>
<i>Speed:</i>	<i>No Restriction</i>
<i>Weight:</i>	<i>88,698 lb or less</i>
<i>Traffic:</i>	<i>Approved with regular traffic</i>
<i>Location Restrictions:</i>	<i>No Restriction</i>

### Non-Interstate Approval Conditions

<i>Approval Type</i>	<i>DENIED</i>
<i>Speed:</i>	<i>DENIED</i>
<i>Weight:</i>	<i>DENIED</i>
<i>Traffic:</i>	<i>DENIED</i>
<i>Location Restrictions:</i>	<i>DENIED</i>

**Comments:**

Equipment configuration, weights, and specifications on following pages. Approval does not apply to load posted bridges. Other construction equipment is not allowed to operate on or cross bridge at the same time this equipment is on the bridge.



# D8T

## Track-Type Tractor

# Technical Specifications

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

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# D8T Track-Type Tractor Specifications

## Engine

Engine Model	Cat® C15	
Emissions	U.S. EPA Tier 4 Final/ EU Stage V/ Korea Tier 4 Final	
Build Number	21A	
Net Power (at rated speed, 1900 rpm)		
ISO 9249/SAE J1349	264 kW	354 hp
ISO 9249/SAE J1349 (DIN)	359 mhp	
Maximum Power (at 1600 rpm)		
Engine Power: ISO 14396	294 kW	394 hp
Engine Power: ISO 14396 (DIN)	400 mhp	
Gross Power: SAE J1995:2014	294 kW	394 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.75 in
Displacement	15.2 L	928 in <sup>3</sup>

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Net power is tested per ISO 9249:2007 and SAE J1349:2011.
- Engine power is tested per ISO 14396:2002.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.
- All nonroad Tier 4 Final, Stage V, Korea Tier 4 Final diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) with 15 ppm (mg/kg) of sulfur or less, or up to B20 biodiesel blended with ULSD. B20 should meet ASTM D7467 specification (biodiesel blend stock 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.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

## Service Refill Capacities

Fuel Tank	627 L	165 gal
Diesel Exhaust Fluid Tank	24 L	6.3 gal
Cooling System	86 L	22.7 gal
Engine Crankcase*	38 L	10.0 gal
Power Train	155 L	41.0 gal
Final Drives (each)	12.5 L	3.3 gal
Roller Frames (each)	65 L	17.2 gal
Pivot Shaft Compartment	40 L	10.6 gal
Hydraulic Tank	75 L	19.8 gal

\* With oil filter.

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.5 kg of refrigerant which has a CO<sub>2</sub> equivalent of 3.575 metric tonnes.

## Hydraulic Controls

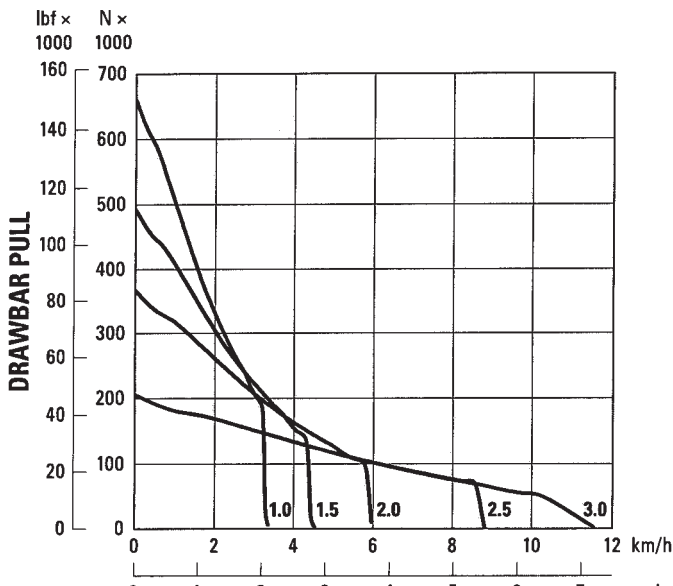
Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	284 L/min	75 gal/min
Pump Output (Implement)	244 L/min	64 gal/min
Tilt Cylinder Rod End Flow	132 L/min	35 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min
Bulldozer Relief Valve Setting	24 000 kPa	3,480 psi
Tilt Cylinder Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Lift) Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Pitch) Relief Valve Setting	24 000 kPa	3,480 psi
Steering	43 000 kPa	6,240 psi

- Steering Pump output measured at 2,364 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,900 rpm and 6895 kPa (1,000 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank, filter, oil cooler, valves, lines, and control levers.

# D8T Track-Type Tractor Specifications

## Transmission

1 Forward	3.5 km/h	2.2 mph
1.5 Forward	4.8 km/h	3.0 mph
2 Forward	6.6 km/h	4.1 mph
3 Forward	11.3 km/h	7.0 mph
1.5 Reverse	4.8 km/h	3.0 mph
2.0 Reverse	6.4 km/h	4.0 mph
2.5 Reverse	8.7 km/h	5.4 mph
3.0 Reverse	11.8 km/h	7.3 mph
<b>Drawbar Pull</b>		
1 Forward	659.2 kN	148,200 lbf
1.5 Forward	490.8 kN	110,350 lbf
2 Forward	366.1 kN	82,300 lbf
3 Forward	205.8 kN	46,250 lbf



## Standards

- The declared dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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 measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- Hearing protection may be needed when the machine is operated with an open operator station for extended periods or in a noisy environment. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors and windows are open for extended periods.
- **Sound Level Information for Machines in European Union Countries and in Countries that Adopt the “European Union Directives”** – The information below applies to only the machine configurations that have the “CE” mark on the Product Identification Plate.
- The declared dynamic operator sound pressure level is 75 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. 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 measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- The declared exterior sound power level is 113 dB(A) 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 at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

## ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

## Brakes

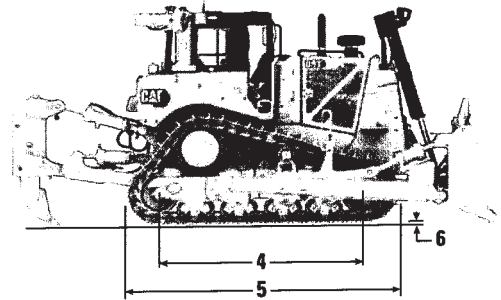
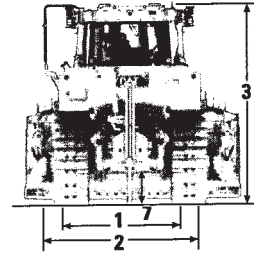
- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.

# D8T Track-Type Tractor Specifications

## D8T

<b>Operating Weight (Single-Shank Ripper)</b>	<b>40 233 kg</b>	<b>88,698 lb</b>
Shipping Weight	35 376 kg	77,990 lb
Ground Pressure (ISO 16754)	91.3 kPa	13.3 psi
Shoe Type	Extreme Service	
Width of Standard Track Shoe	610 mm	24 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	4.32 m <sup>2</sup>	6,697 in <sup>2</sup>
<b>1</b> Track Gauge	2083 mm	82 in
<b>2</b> Width of Tractor (without trunnions)	2693 mm	106 in
<b>3</b> Machine Height from Tip of Grouser to Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142 in
<b>4</b> Length of Track on Ground	3206 mm	126 in
<b>5</b> Length of Basic Tractor	4647 mm	183.0 in
With the following attachments add:		
Single Shank Ripper (with tip at ground line)	1519 mm	59.8 in
Multi-Shank Ripper (with tip at ground line)	1613 mm	63.5 in
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
U Blade	2241 mm	88.2 in
A Blade (straight)	2027 mm	79.8 in
A Blade (angled 25 degrees)	3068 mm	120.8 in
Pitch	216 mm	8.5 in
<b>6</b> Grouser Height	84 mm	3.3 in
<b>7</b> Ground Clearance	622 mm	24.4 in

- Operating Weight – Includes hydraulic controls, tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) ES shoes, and operator.
- Shipping Weight – Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, Single-Shank Ripper and 610 mm (24 in) ES shoes.
- \*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).



## Blades – D8T

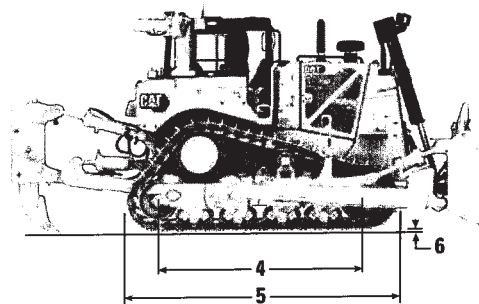
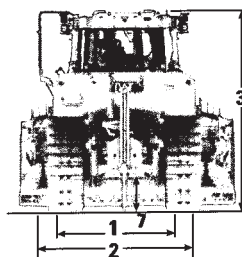
	Capacity	Width*	Width Over End Bits	Height	Dig Depth	Ground Clearance	Maximum Tilt	Blade Weight* (without hydraulic controls)
	m <sup>3</sup> (yd <sup>3</sup> )	mm (ft)	mm (ft)	mm (ft)	mm (in)	mm (in)	mm (in)	kg (lb)
Semi-Universal (SU)	10.3 (13.4)	3900 (12.8)	4042 (13.3)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4407 (9,716)
SU with Rock Guard, Wear Plate	10.3 (13.4)	3900 (12.8)	4042 (13.3)	2017 (6.6)	573 (22.56)	1255 (49.41)	895 (35.24)	4998 (11,019)
SU with Push Plate	10.3 (13.4)	3900 (12.8)	4042 (13.3)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4655 (10,263)
SU with Performance Cutting Edges	10.3 (13.4)	3900 (12.8)	3962 (13.0)	1747 (5.7)	573 (22.56)	1255 (49.41)	895 (35.24)	4547 (10,024)
SU with Rock Guard, Performance Cutting Edges	10.3 (13.4)	3900 (12.8)	3962 (13.0)	2017 (6.6)	573 (22.56)	1255 (49.41)	895 (35.24)	5130 (11,310)
Universal	11.8 (15.4)	4123 (13.5)	4265 (14.0)	1732 (5.7)	573 (22.56)	1230 (48.43)	968 (38.11)	4895 (10,792)
Universal with Rock Guard, Wear Plate	11.8 (15.4)	4123 (13.5)	4265 (14.0)	2012 (6.6)	573 (22.56)	1230 (48.43)	968 (38.11)	5454 (12,024)
Angle Blade	5.2 (6.8)	4531 (14.9)	5043 (16.5)	1177 (3.9)	625 (24.61)	1323 (52.09)	733 (28.86)	5121 (11,289)

\*Includes blade tilt cylinder.

# D8T Track-Type Tractor Specifications

## D8T LGP

Operating Weight (drawbar)	38 513 kg	84,906 lb
Shipping Weight	33 388 kg	73,607 lb
Ground Pressure (ISO 16754)	55.3 kPa	8.0 psi
Shoe Type	Extreme Service	
Width of Standard Track Shoe	965 mm	38 in
Shoes/Side	44	
Track Rollers per Side	8	
Ground Contact Area (ISO 16754)	6.84 m <sup>2</sup>	10,594 in <sup>2</sup>
<b>1</b> Track Gauge	2337 mm	92 in
<b>2</b> Width of Tractor (without trunnions)	3302 mm	130 in
<b>3</b> Machine Height from Tip of Grouser to Exhaust Stack	3475.5 mm	136.8 in
Top of Cab*	3498.5 mm	137.7 in
Top of Guardrail	3608.5 mm	142 in
<b>4</b> Length of Track on Ground	3206 mm	126 in
<b>5</b> Length of Basic Tractor	4647 mm	183.0 in
With the following attachments add:		
Drawbar	406 mm	16.0 in
SU Blade	1904 mm	75.0 in
A Blade (straight)	2027 mm	79.8 in
A Blade (angled 25 degrees)	3068 mm	120.8 in
Pitch	216 mm	8.5 in
<b>6</b> Grouser Height	84 mm	3.3 in
<b>7</b> Ground Clearance	622 mm	24.4 in



Standard configuration shown.

- Operating Weight – Includes hydraulic controls, tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, LGP SU-Blade, 965 mm (38 in) ES shoes, and operator.
- Shipping Weight – Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, drawbar and 965 mm (38 in) ES shoes.
- \*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

## Blades – D8T LGP

	Capacity	Width*	Width Over End Bits	Height	Dig Depth	Ground Clearance	Maximum Tilt	Blade Weight* (without hydraulic controls)
	m <sup>3</sup> (yd <sup>3</sup> )	mm (ft)	mm (ft)	mm (ft)	mm (in)	mm (in)	mm (in)	kg (lb)
LGP SU	9.9 (12.9)	4402 (14.4)	4543 (14.9)	1622 (5.3)	575 (22.64)	1228 (48.35)	859 (33.82)	4703 (10,368)
LGP Angle	5.6 (7.3)	5041 (16.5)	5553 (18.2)	1177 (3.9)	625 (24.61)	1323 (52.09)	657 (25.87)	5714 (12,597)

\*Includes blade tilt cylinder.

# D8T Track-Type Tractor Specifications

## Track Shoes

	610 mm (24 in)	660 mm (26 in)	711 mm (28 in)	965 mm (38 in)
<b>Positive Pin Retention (PPR)Track</b>				
Moderate Service	✓	✓	✓	✓
Extreme Service	✓	✓	✓	✓
Super Extreme Service	✓			
<b>Moderate Service Trapezoidal</b>				
Extreme Service Trapezoidal	✓	✓	✓	✓
Super Extreme Service Trapezoidal		✓		
<b>Heavy Duty Extended Life</b>				
Extreme Service	✓	✓	✓	✓
Extreme Service Trapezoidal	✓	✓		✓
Super Extreme Service	✓			

## Ripper

	Single-Shank, Adjustable Parallelogram		Multi-Shank, Adjustable Parallelogram	
	1		3	
Number of Pockets				
Overall Beam Width		—	2464 mm	97 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	25 in	593 mm	23.4 in
Maximum Penetration (standard tip)	1130 mm	44.4 in	780 mm	30.7 in
Maximum Penetration Force (shank vertical)	127.3 kN	28,620 lb	124.2 kN	27,920 lb
Pry out Force	222.7 kN	50,070 lb	—	—
Pry out Force (Multi-Shank Ripper with one tooth)		—	222.9 kN	51,230 lb
Weight* (without hydraulic controls)	4057 kg	8,944 lb	—	—
<b>Weight</b>				
With One Shank		—	3949 kg	8,706 lb
Each Additional Shank		—	343 kg	756 lb
Total Operating Weight* (with SU-Blade and Ripper)	40 233 kg	88,698 lb	40 125 kg	88,460 lb

\* Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel. ROPS, FOPS cab, blade, single-shank 610 mm (24 in) ES shoes, and operator.

## Winches

Winch Model	PA140VS		W12E	
Weight*	2136 kg	4,709 lb	2880 kg	6,350 lb
Oil Capacity	15 L	4 gal	121 L	32 gal
Increased Tractor Length	781 mm	30.7 in	669 mm	26.4 in
Winch Length	1614 mm	63.5 in	1485 mm	58.5 in
Winch Case Width	1226 mm	48.3 in	1216 mm	48.0 in
Drum Width	332 mm	13.1 in	281 mm	12.0 in
Flange Diameter	610 mm	24.0 in	635 mm	25.0 in
Recommended Cable Size	29 mm	1.13 in	29 mm	1.13 in
Optimal Cable Size	32 mm	1.25 in	32 mm	1.25 in
<b>Drum Capacity</b>				
Recommended Cable Length	84 m	276 ft	69 m	227 ft
Optional Cable	62 m	204 ft	55 m	181

- PA140VS – Variable speed, hydraulically driven, dual braking system, three roller fairlead.
- W12E – Fixed speed, PTO driven.

\*When Cat Grade with 3D antennas are installed, overall machine height increases by approximately 50 mm (2 in).

# D8T 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>POWER TRAIN</b>			<b>CAT TECHNOLOGY</b>		
Cat C15 engine – meets U.S. EPA Tier 4 Final/Korea Tier 4 Final emission standards	✓		Attachment Ready Option (ARO)		✓
Cat C15 engine – meets EU Stage V emission standards		✓	AutoCarry/AutoRip, single tilt or dual tilt		✓
24V electric start	✓		Cat Grade with 3D		✓
Aftercooler, air-to-air (ATAAC)	✓		Cat Grade with Slope Assist		✓
Air filter, with electronic service indicator	✓		Cat Slope Indicate	✓	
Brakes, Extreme Service		✓	Remote Control Ready		✓
Coolant, extended life	✓		Command for Dozing		✓
Drains, ecology, power train		✓	Grade Control Ready	✓	
Engine precleaner with screen		✓	Product Link™ – Cellular or Dual Mode		✓
Engine, thermal shield		✓	<b>OPERATOR ENVIRONMENT</b>		
Fan, suction, auto reversing	✓		Access/egress lighting with shutdown timer	✓	
Four planet, double-reduction planetary final drives	✓		Armrests, adjustable	✓	
Fuel priming pump, electric	✓		Cab glass – enhanced 40 psi		✓
Full autoshift	✓		Cab glass – enhanced dual pane		✓
High performance single plane cooling system	✓		Cab, ROPS/FOPS, sound suppressed	✓	
Oil change system, high speed		✓	Deactivation switch, hydraulic controls	✓	
Parking brake, electronic	✓		Decelerator pedal	✓	
Precleaner, strata-tube dust ejector	✓		Governor switch, electronic	✓	
Prescreener	✓		Heater and ventilation	✓	
Radiator, 6.35 fins per inch, debris	✓		Interior LED courtesy lights	✓	
Sound attenuated exhaust system	✓		Mirror, rearview	✓	
Starting aid, automatic ether	✓		Provision for wire passage in/out of cab	✓	
Torque divider with lock-up clutch	✓		Radio, AM/FM, Bluetooth®	✓	
Transmission control module, electronic	✓		ROPS mounted air conditioner	✓	
Transmission, electronically-controlled powershift	✓		Seat belt, retractable	✓	
Turbocharger	✓		Seat, cloth, air-suspension	✓	
Water separator	✓		Seat, cloth, heated		✓
			Seat, heated and ventilated		✓
			Touchscreen operator interface	✓	
			Visibility arrangement – mirrors		✓
			Visibility arrangement – single camera		✓
			Window shades		✓
			Wipers, intermittent	✓	

(continued on next page)



# D8T Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>UNDERCARRIAGE</b>			<b>HYDRAULICS</b>		
Gauge arrangements – Standard or LGP	✓		Dozer tilt hydraulics – dual tilt		✓
Rollers and idlers, lifetime lubricated	✓		Dozer tilt hydraulics – single tilt	✓	
Sprocket rim segments, replaceable	✓		Electronically enabled quick drop valve	✓	
Suspension-type undercarriage	✓		Hydraulics, electronically controlled, load-sensing dozer lift and tilt	✓	
8-roller tubular track roller frame (carrier roller ready)	✓		Hydraulics, electronically controlled, load-sensing rear hydraulics, ripper or winch ready	✓	
Track adjusters, hydraulic	✓		Hydraulics, independent steering and work tool pumps	✓	
Track guide	✓		Hydraulics, ripper		✓
Two-piece master links	✓		Hydraulics, winch		✓
Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓		<b>ELECTRICAL</b>		
610 mm (24 in) PPR moderate service shoes*	✓		Alarm, back-up	✓	
PPR undercarriage, suspended, guarded		✓	Converter, 24V to 12V	✓	
PPR undercarriage, arctic		✓	Diagnostic connector	✓	
Heavy Duty, Extended Life (HDXL) undercarriage – 44 section track, sealed and lubricated, single grouser shoes		✓	Ground level service center with hour meter	✓	
HDXL undercarriage, suspended		✓	Horn, forward warning	✓	
HDXL undercarriage, suspended, guarded		✓	Light, warning strobe		✓
HDXL undercarriage, arctic		✓	Light, warning strobe mount		✓
Carrier rollers, suspended		✓	Lights – premium light package		✓
Carrier rollers, suspended – arctic		✓	Lights – six-light package	✓	
Carrier rollers, none		✓	<b>BULLDOZERS (see chart for available blade options)</b>		
Final drives, standard or LGP	✓		8SU/U – basic, guarded or dual tilt guarded		✓
Final drives, standard or LGP, guarded		✓	8SU LGP – basic		✓
Final drives, standard, arctic		✓	8 LGP – single tilt guarded or dual tilt guarded		✓
			8A		✓

\*For optional track shoe offerings, please refer to chart on page 4.

(continued on next page)

# D8T Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>PUSH ARMS</b>			<b>FLUIDS, LUBRICANTS, COOLANTS</b>		
Single tilt, standard	✓		Engine coolant, standard -37°C (-35°F)	✓	
Single tilt, extreme		✓	Engine coolant, arctic -51° C (-60° F)		✓
Dual tilt, standard or extreme		✓	<b>OTHER STANDARD EQUIPMENT</b>		
<b>BOTTOM GUARDS</b>			Equalizer bar, pinned	✓	
Hinged	✓		Front pull device	✓	
Powered		✓	HVAC box – corrosive resistant	✓	
Heavy duty, sealed		✓	Mounting, lift cylinders	✓	
Wood chip		✓	Oil cooler, hydraulic	✓	
Bottom guards with front counterweight		✓	Product Link	✓	
<b>REAR ATTACHMENTS</b>			S-O-S <sup>SM</sup> sampling ports	✓	
Ripper – single-shank		✓	Steering, electronically controlled power differential	✓	
Ripper – single-shank with pin puller		✓	Vandalism protection for fluid compartments	✓	
Ripper – single-shank with striker bar		✓	Engine compartment service light	✓	
Ripper – single-shank with pin puller and striker bar		✓	<b>GUARDS</b>		
Ripper – multi-shank		✓	Guard, fan debris		✓
Ripper – multi-shank with striker bar		✓	Guard, fast fuel		✓
Counterweight, rear		✓	Guard, fuel tank		✓
Drawbar, rigid		✓	Guard, grill debris		✓
Rear striker bar		✓	Rear screen		✓
Winch, PA140VS, variable speed		✓	Striker bars, front, suspended		✓
Winch, W12E PTO		✓	Sweeps group		✓
<b>STARTERS, BATTERIES, AND ALTERNATORS</b>			<b>OTHER ATTACHMENTS</b>		
Batteries – Heavy Duty	✓		Black paint, blade		✓
Batteries – Arctic		✓	Grab handles, push arm		✓
Alternators – 150 Amp	✓				
Alternators – 150 Amp, ducted		✓			
Starting aids – engine heaters		✓			
Heater, engine coolant (120V)		✓			