D9

DOZER

Operating Weight	49 988 kg / 110,225 lb
Engine Power	337 kW / 452 hp
	328 kW / 440 hp

The Cat® C18 Engine is available in Tier 2 and Tier 3 configurations. It also meets U.S. EPA Tier 4 / EU Stage V emission standards with an aftertreatment system that is designed to be transparent to the operator.

CAT®

Nearly half of the large dozers Caterpillar sells are D9 Dozers — and for good reason. They're the smart choice for dozens of applications and environments, thanks to unmatched reliability, long life and a wide range of application-specific blades. Like all Cat® dozers, the productive and efficient D9 is a fully integrated Cat machine — 100 percent designed by Caterpillar and built with all Cat components that work together to deliver top performance and high availability. With the D9, you'll move more dirt at the lowest possible cost.

THE NEW CAT® D9

BUILT SMARTER TO WORK HARDER

GO THE DISTANCE WITH CAT DOZERS

Caterpillar has the industry's broadest lineup of dozers working in dozens of applications, climates and environments. They're made to go the distance, with a proven design and durable construction that deliver multiple lives. And when it comes to productivity, they'll help your operation go the distance. They're infused with performance-enhancing technologies, easy to operate and service, and supported by the world-class Cat dealer network. The result? High reliability, maximum productivity, long life — and the lowest owning and operating cost of any dozer in the industry.

These benefits, and many more, make Cat dozers the ideal choice for every site or application. And they deliver a better bottom line to the most important job site in the world: yours.

NEARLY HALF OF ALL LARGE DOZERS ARE D9s

5% BOOST IN FUEL EFFICIENCY with new Stator Clutch Torque Converter

UP TO 3% LOWER OVERALL COST PER BANK CUBIC METER

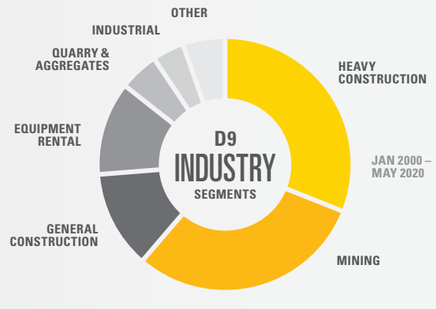
FUTURE-READY FOR TECHNOLOGY

UP TO 4% LOWER MAINTENANCE AND REPAIR COSTS

+ Integrated Cat AutoLube system
+ Fewer greasing points
+ Improved radiator cleaning access
+ Longer filter change intervals
+ Continuous fluid level monitoring
+ Remote flash software

THE RIGHT DOZER FOR YOUR APPLICATION

Introduced in 1955, about 1,500 Cat D9 Dozers were sold in their first year of production. Today there are more Cat D9 Dozers — in more applications — than any other large dozer Caterpillar makes. The first 10 pilot machines were tested in a variety of environments — from working on logging sites, to constructing roads and dams, to supporting an oil refinery. Over time, D9s went to work in more locations and more applications and today have a reputation for versatility and performance on sites around the world.



DELIVERING THE LOWEST COST OF OWNERSHIP

No other manufacturer has more experience moving material than Caterpillar. There are more Cat large dozers working around the world than any other brand. Our long history of evolution and innovation has helped us remain the leader for over a century.

A PROVEN DESIGN PHILOSOPHY

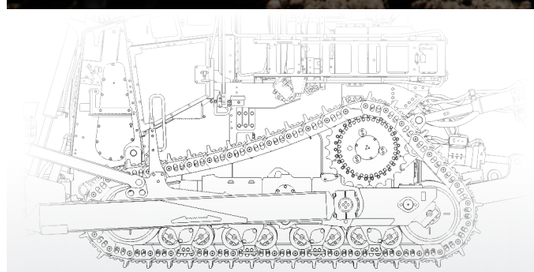
When it comes to making Cat large dozers, we follow a proven design philosophy that focuses around five main areas:

1. Keep operators safe, comfortable and in control
2. Ensure productivity in all applications
3. Take advantage of the latest technology
4. Make dozers that are easy to maintain and repair
5. Make sure they are built to last

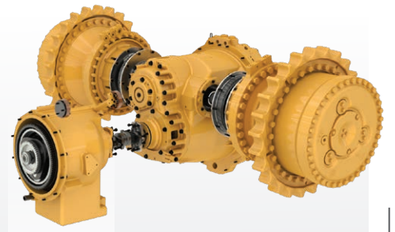
By following this philosophy — for every large dozer, every time — we ensure that our customers get what they expect from Caterpillar: the lowest cost of ownership of any material mover in the industry.

THE RIGHT DOZER
FOR YOUR APPLICATION

The D9 is a versatile machine designed to be used in a variety of applications, such as ripping overburden, production dozing, stockpiling, winching, site maintenance, fleet support and reclamation.



The elevated sprocket and suspended undercarriage work together, increasing traction and giving the operator a smooth ride in all conditions. The elevated sprocket design transfers implement shock loads to the mainframe, so final drives, axles and steering components are isolated from harsh impacts. The result is higher productivity and longer component life, no matter the application.



5% LESS FUEL

HIGH EFFICIENCY. REDUCED FUEL.

The torque converter with stator clutch automatically frees up the stator when torque multiplication is not required under low load, resulting in higher drivetrain efficiency for reduced fuel consumption. During higher loads and retarding conditions, it locks automatically.

Fuel efficiency improvements vary by application, but it has consistently shown a 5% improvement with no noticeable changes felt by the operator.

LARGE LOADS. SMOOTH MANEUVERING.

The D9 features differential steering, so large blade loads can be smoothly maneuvered throughout a turn. Differential steering provides a tight turning radius and maintains a high ground speed while turning to keep productivity high.

The planetary powershift transmission controls permit smooth speed and direction changes with Advanced Productivity Electronic Control System (APECS).

PRODUCTIVE DOZING BEGINS WITH A PRODUCTIVE OPERATOR

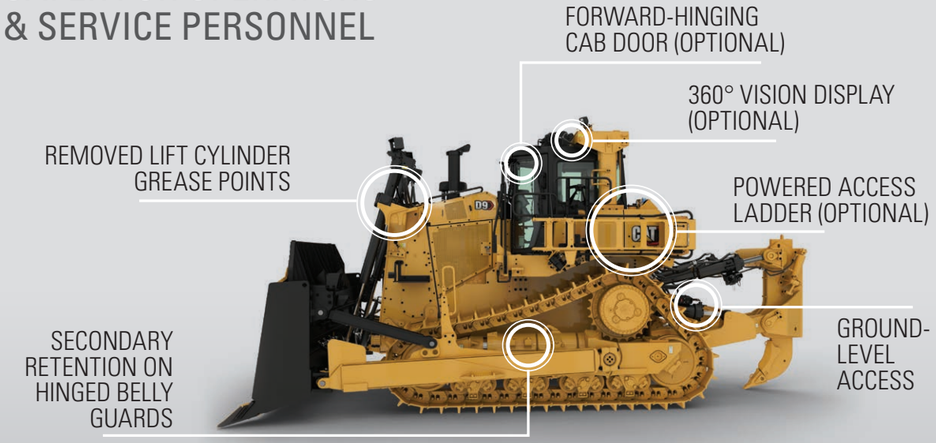
SAFETY-INFUSED

A confident operator is a productive operator. So we've infused the D9 with safety to help operators feel safe and confident on the job. The operator station offers an exceptional viewing area, with a tapered hood, notched fuel tank, and narrow ripper carriage to give the operator a clear line of sight to front and rear work areas.

DESIGNED FOR COMFORT

Noise, vibration, stress and fatigue all have an effect on operator performance—so we've designed an environment that helps minimize them. The operator station in the D9 reduces effort and exposure. The cab is unparalleled, with enhanced ergonomics, a fully adjustable air suspension seat, and controls that are easy to access and operate. Low-effort electronic steering, ripper and dozer controls are easily accessible and provide sure, precise maneuvering.

SAFER FOR OPERATORS & SERVICE PERSONNEL



PRODUCTIVITY-ENHANCED

The operator environment in the D9 is more than a cab; it's an integrated electronic platform designed to maximize productivity. The multi-color/touchscreen display is the operator's gateway to monitoring machine performance and a convenient way of modifying machine parameters to tailor performance to the current task. The display consolidates functions so there are fewer buttons and screens in the cab. It stores 41 languages and is also used for the optional camera ripper view.

The touchscreen Information Display is larger, faster, and more powerful with increased memory and intuitive menu structure. The optional Work Monitor screen within the Information Display collects machine data and provides real-time feedback on machine performance to optimize productivity.

D9
DOZER

TAKE INNOVATION
TO A NEW LEVEL

Cat large dozers became the industry leader by being innovative—and today's D9 takes innovation to a new level. The D9 takes advantage of a number of on-board technologies today and is future-ready for technology enhancements to come.

Options like Remote Control, Automated Blade Assist, AutoCarry, Automatic Ripper Control and Cat Grade Control 3D are seamlessly integrated into the D9.

AUTOMATED BLADE ASSIST (ABA)

Automated Blade Assist automates the movement of the blade to several key preset pitch positions. The positions of each segment—load, carry and spread—can be set through the Information Display or the push-button keypad.

+ Increases efficiency
+ Reduces operator workload

AUTOMATIC RIPPER CONTROL

This feature monitors the dozer speed with the ROPS-mounted GNSS to automatically adjust engine speed and ripper depth to minimize track slip.

+ Decreases wear and tear on the machine
+ Maintains maximum productivity
+ Reduces operator fatigue

CAT GRADE CONTROL 3D

This optional system uses dual ROPS-mounted GNSS antennas and in-cylinder sensors to provide precise positioning of the cutting edge. Three operating modes—Rough Grade, Grade Protection and Grade Control—enable consistent grades.

+ Reduces number of people required on site
+ Lowers personnel costs
+ Enhances safety

AUTOCARRY

The AutoCarry feature provides automatic blade control during the carry segment, reducing operator fatigue and helping to keep slip at the optimum level for best performance.

+ Increases productivity up to 15%
+ Lowers cost per unit of material moved
+ Delivers better performance in limited visibility

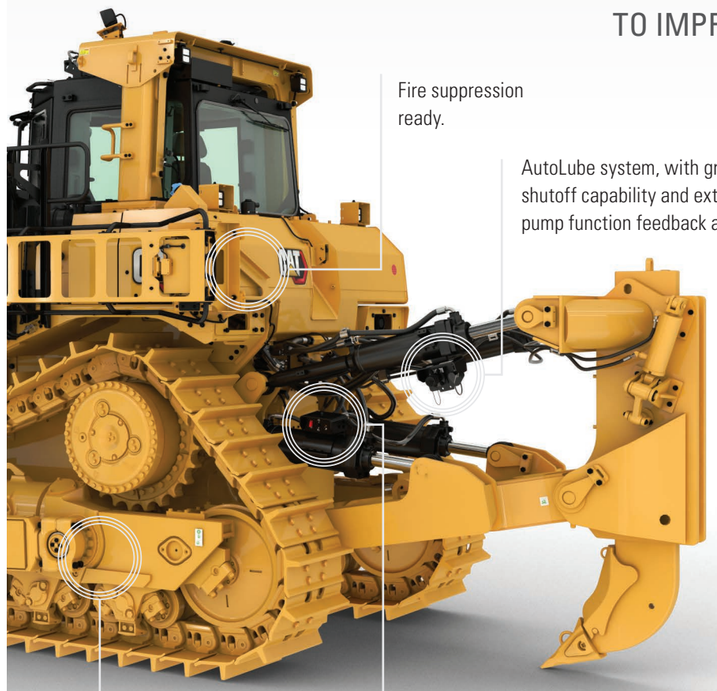
RUN YOUR DOZERS REMOTELY
COMMAND FOR DOZING

Cat MineStar™ Command for dozing offers multiple levels of remote-control operation, helping increase operator safety and comfort—as well as the productivity of your dozer fleet. Whether you choose the over-the-shoulder remote control console or the remote operator station, your operators can have full control of the dozer without being exposed to dust, noise, vibration or other hazards.

REDUCE YOUR DOWNTIME. REDUCE YOUR COSTS.

The D9 is designed to be easy to service and maintain—so your machines spend less time in the maintenance shop and more time on the job. We've grouped maintenance points to minimize movement around the machine, and provided ground-level service access for fluids and key electrical controls.

THE NEW D9 GOES EVEN FURTHER TO IMPROVE SERVICEABILITY.

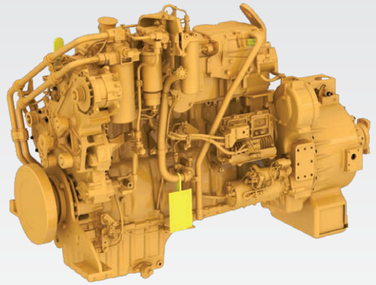


Fire suppression ready.

AutoLube system, with ground-level fill and automatic shutoff capability and external pressure gauges for pump function feedback and troubleshooting.

Improved bottom guard removal, with retention plate on each hinged guard.

Standard ground-level fluid and lighting access, secondary engine shutoff and optional ladder raise/lower switch.



Optional high-capacity secondary fuel filter.

Powertrain oil filter life extended to 2,000 hours—more than twice as long as the previous D9T model.

Fewer greasing points.

Remote Flash software allows updates to be performed remotely by the dealer, reducing downtime and the need for a technician to visit the dozer on the job site.

Ok-to-Start monitoring system verifies that coolant, transmission oil, engine oil and fuel are in an acceptable range prior to starting the engine.

Continuous fluid level monitoring on engine oil, coolant, powertrain and fuel compartments.

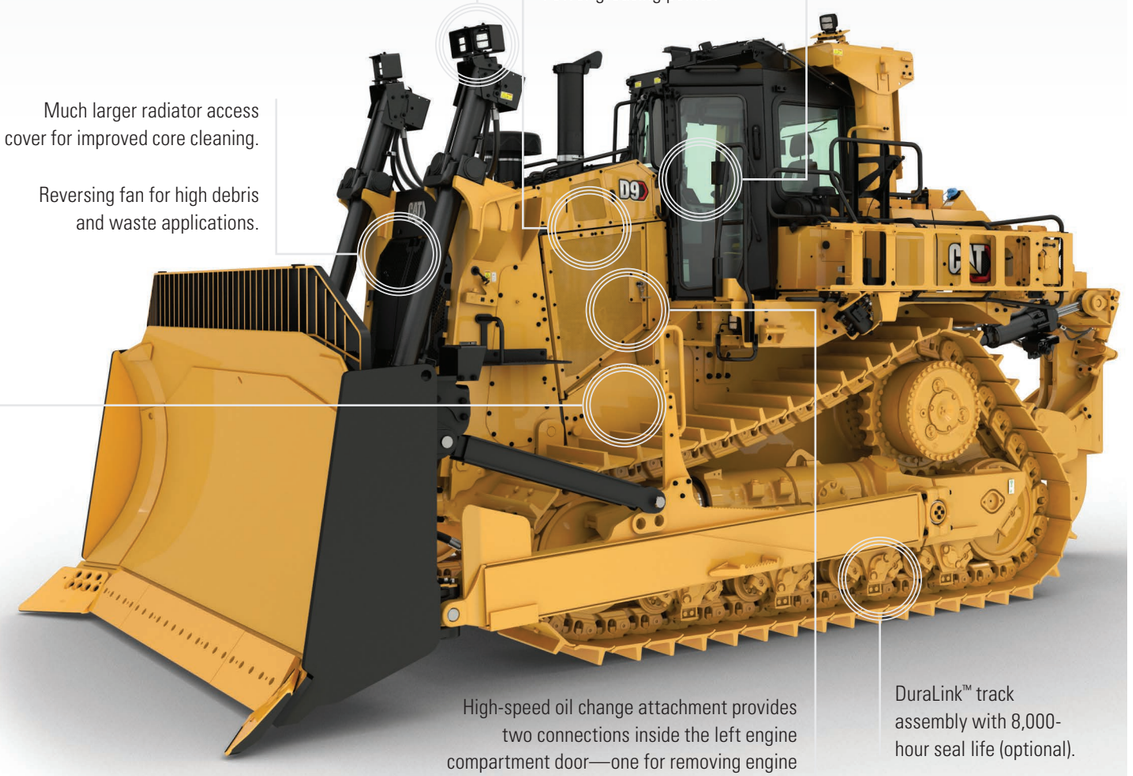
Optional high-output LED lights.

Much larger radiator access cover for improved core cleaning.

Reversing fan for high debris and waste applications.

6% larger fuel tank.

Ecology drains use a valve rather than a plug to provide an environmentally safe and effective method to drain fluids. These drains can be found in the radiator, hydraulic tank, and major powertrain components where fluids are commonly changed. Location of the drains was made so that fluids could be easily captured in an appropriate container for recycling or proper disposal.



High-speed oil change attachment provides two connections inside the left engine compartment door—one for removing engine oil and the other for powertrain oil. Oil is quickly removed using a pump truck.

DuraLink™ track assembly with 8,000-hour seal life (optional).

DOZERS THAT ARE MADE TO GO THE DISTANCE

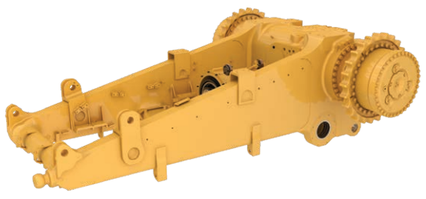
The durability and reliability of Cat dozers are unmatched in the industry. It's not unusual for a Cat dozer to log more than 100,000 hours.

The more-durable D9 undercarriage

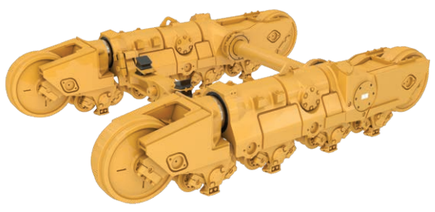
+ From 20-40% longer undercarriage life and 8,000-hour seal life with new heavy-duty extended-life (HDXL) undercarriage
+ Roller frames are tubular to resist bending and twisting, with added reinforcement where operating loads are highest.

Equalizer bar

DuraLink™ Undercarriage



Durable frame



Tubular roller frame

DOZE. REBUILD. REPEAT.

The D9 frame, powertrain and major components are built to be rebuilt—using new, remanufactured or rebuilt parts and components— so you can take advantage of a cost-effective second life of like-new performance at a fraction-of-new price.

The backbone of the machine is a heavy, strong and durable frame with high-strength steel castings and continuously rolled top and bottom frame rails. Frames provide durable support to the undercarriage, elevated final drives and other components.

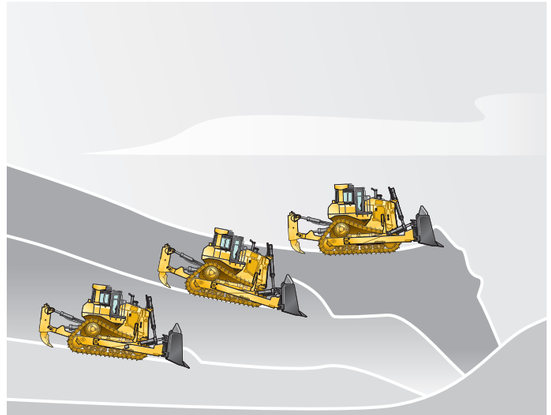
CAT BLADES: THE PERFECT MATCH FOR CAT DOZERS

Decades of dozer research and development have made Caterpillar the leader in blade technology. Cat blades are designed for loadability and constructed of high-tensile strength materials to produce big numbers over a long life.

+ Optimal heel clearance and sharp cutting edge angle, which make the blade more aggressive in tough material
+ Superior loadability due to heavy moldboard construction and bolt-on hardened cutting edges and end bits
+ Ability to resist torsional bending and distortion
+ Material thickness chosen specifically to increase wear resistance and dozing effectiveness — without sacrificing machine balance or performance

BLADE OPTIONS for the D9

+ Universal (U)
+ Semi-Universal (SU)
+ Waste
+ Coal
+ Reclamation
+ Wood Chip



3 PITCH POSITION OPTIONS

+5% MORE MATERIAL MOVED

DUAL TILT ADVANTAGE

The Dual Tilt option delivers a significant boost to productivity by allowing the operator to optimize blade pitch angle, improving load control and making it possible to carry material instead of only pushing it. In a direct comparison between two dozers, a D9 Dozer with Dual Tilt moved 5% more material than the one without.

CapSure™ Hammerless Ripper Tip and Shank Protector Retention System

The tip and shank protector are easily installed with a 180-degree turn of a ¾-inch ratchet. This simple installation means no hammering and therefore improved safety. It also means quicker change-outs and less downtime.

SPECIALTY ATTACHMENTS

Single-Shank Ripper

Multi-Shank Ripper

REAR ATTACHMENTS

+ Single-Shank Ripper
+ Multi-Shank Ripper
+ Counterweight
+ Winch
+ Striker Bar (Waste)

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE – U.S. EPA TIER 2/3 EQUIVALENT		
Engine Model		Cat C18
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,106 in³
Engine Power		
Gross SAE J1995*	363 kW	487 hp
ISO 14396	357 kW	479 hp
Net SAE J1349/ISO9249	337 kW	452 hp
Emissions	U.S. EPA Tier 2 or Tier 3 equivalent	
• All engine ratings apply at 1,750 rpm.		
• No derating required up to 4267 m (14,000 ft) altitude.		

ENGINE – U.S. EPA TIER 4 FINAL / EU STAGE V		
Engine Model		Cat C18
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,106 in³
Engine Power		
Gross SAE J1995*	356 kW	477 hp
ISO 14396	349 kW	468 hp
Net SAE J1349/ISO9249	328 kW	440 hp
Emissions	U.S. EPA Tier 4 / EU Stage V	
• All engine ratings apply at 1,750 rpm.		
• No derating required up to 2499 m (8,200 ft) altitude.		

FLUID CAPACITIES		
Fuel Tank (Splash Fill)	963 L	254gal
DEF Tank (Tier 4 only)	36 L	9.5 gal
Fuel Tank (Fast Fill)	939 L	248 gal
Cooling System	81.3 L	21 gal
Engine Crankcase	36 L	10 gal
Powertrain	150 L	40 gal
Final Drives (each)	15 L	4 gal
Roller Frames (each)	45 L	12 gal
Pivot Shaft Oil	30 L	8 gal
Hydraulic System Tank	89 L	24 gal

WEIGHTS		
Operating Weight	49 988 kg	110,225 lb
Shipping Weight	38 271 kg	84,373 lb

- D9 Operation Weight includes hydraulic controls, blade tilt cylinder, coolant, lubricants, full fuel tank, ROPS, FOPS cab, SU Blade, Single-Shank Ripper, 610 mm (24 in) ES shoes and operator.
- D9 Operation Weight includes base machine chassis with cab, pivot shaft, roller frames, track and ROPS.

TRANSMISSION		
1.0 Forward	3.8 km/h	2.3 mph
2.0 Forward	6.6 km/h	4.1 mph
3.0 Forward	11.6 km/h	7.2 mph
1.0 Reverse	4.7 km/h	2.9 mph
2.0 Reverse	8.2 km/h	5.1 mph
3.0 Reverse	14.4 km/h	9.0 mph
Type	Planetary powershift	

BLADE	SEMI-UNIVERSAL	UNIVERSAL
Blade Capacity (SAE J1265)	13.6 m³ | 17.8 yd³	16.6 m³ | 21.7 yd³
Blade Width (over end bits)	4376 mm | 172.3 in	4648 mm | 183.0 in
Blade Height	1934 mm | 76.1 in	1934 mm | 76.1 in
Maximum Digging Depth	606 mm | 23.9 in	606 mm | 23.9 in
Ground Clearance at Full Lift	1422 mm | 56.0 in	1422 mm | 56 in
Maximum Tilt	940 mm | 37.0 in	1014 mm | 39.9 in
Blade Weight	4802 kg | 10,587 lb	5450 kg | 12,016 lb

DIMENSIONS	D9
Ground Clearance*	459 mm | 18.1 in
Track Gauge	2250 mm | 88.6 in
Width Without Trunnions (standard shoe)	3310 mm | 113.0 in
Height (ROPS cab)*	4000 mm | 157.5 in
Length of Track on Ground	3470 mm | 136.6 in
Overall Length – Basic Dozer	4910 mm | 193.3 in
Overall Length with SU Blade and SS Ripper**	8219 mm | 323.6 in
*Includes grouser height for total dimensions on hard surfaces.	

STANDARD & OPTIONAL EQUIPMENT

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

OPERATOR EQUIPMENT	STANDARD	OPTIONAL
ROPS/ FOPS, Sound-Suppressed Cab	•	
High-Definition Primary Touchscreen Display	•	
Visibility – Rearview Mirrors	•	
Visibility – Camera: Ripper Tip View		•
Visibility – Four Cameras, 360 Degree View		•
Air Conditioner and Heater with Automatic Climate Control	•	
Seat – Heated, Cooled, Adjustable Lumbar and Bolsters		•
Differential Steering – Power Turn	•	
Entertainment Radio Ready (12V Power, Harness, Speakers)	•	
Cab Glass – Single-Pane Tinted Safety	•	
Cab Glass – Dual-Pane Laminated Impact Safety		•
Cab Glass – High-Pressure Safety (40 psi / 275 kPa)		•
"Operator Not Present" Detection	•	
Cab Access – Blade Pusharm Steps and Grab Handle	•	
Cab Access – Powered Ladder		•

CAT TECHNOLOGY PRODUCTS	STANDARD	OPTIONAL
VIMS℠	•	
AutoCarry™		•
Auto Ripper Control		•
Cat Product Link™ Elite (cellular) (When allowed by local regulations)	•	
Cat Product Link™ Elite Dual Mode (cellular + satellite)		•
Cat GRADE with 3D		•

MAINTENANCE AND SERVICE	STANDARD	OPTIONAL
Ecology Fluid Drains – All Compartments	•	
Hinged Bottom Guards	•	
High-Speed Oil Change – Engine and Transmission	•	
Ground-Level Fast Fuel Fill: - Standard on Tier 4 / Stage V - Optional on Tier 2-3 equivalent	•	•
S·O·S℠ Fluid Sampling Ports	•	
Cat Autolube Grease System with Ground-Level Fill and Auto Shutoff		•
Anchorage Points (8)	•	
Hinged Quick-Access Door on Radiator Guard		•

OTHER	STANDARD	OPTIONAL
Fire Suppression Ready		•

UNDERCARRIAGE	STANDARD	OPTIONAL
Undercarriage Arrangement – Abrasion		•
Undercarriage Arrangement – Cold Weather		•
Suspension-Type Undercarriage	•	
Equalizer Bar – Greased End Pin Bearings	•	
Track Links – Heavy-Duty XL – Duralink		•
Track Shoe – Anti-Packing Round Hole		•
Carrier Roller		•

ELECTRICAL	STANDARD	OPTIONAL
24V Electric Start, Dual Starters		•
Alternator – 150-Amp	•	
Batteries – 2x4, 200-Amp Hour, 12V	•	
Battery Isolation	•	
Lights – Halogen – 8 Positions	•	
Lights – LED – 14 Positions		•
Lights – LED – 14 Positions, High Output		•

HYDRAULICS	STANDARD	OPTIONAL
Electronically Controlled, Load-Sensing Dozer Lift and Tilt	•	
Dozer Blade – Dual Tilt		•
Electronically Enabled Blade – Quick Drop	•	

CAT POWERTRAIN	STANDARD	OPTIONAL
Cat C18 Engine – US EPA Tier 4 Final, US EPA Tier 2 Equivalent, EU Stage V	•	
High-Performance Single-Plane Cooling Module	•	
Stator Clutch Torque Divider – Electronic Control	•	
Powershift Transmission – Three-Speed Electronic Shift	•	
Enhanced Auto Shifting (EAS)	•	
Hydraulic Cooling Fan – Automatic Reversing		•
Thermal Manifold and Turbo Shields		•
Final Drive Seal – Guarded		•

REAR ATTACHMENTS	STANDARD	OPTIONAL
Ripper – Single-Shank		•
Ripper – Multi-Shank (three)		•
Counterweight		•
Winch		•

SPECIAL ARRANGEMENTS	STANDARD	OPTIONAL
High Debris		•
Stockpile		•
Waste Handling		•
Sound		•
Arctic		•

D9 DOZER

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

PEDJ0512-02
Build Number: 07A