

# D9R

## Track-Type Tractor



### Engine

Engine Model	Cat® 3408C	
Gross Power	354 kW	474 hp
Flywheel Power	302 kW	405 hp

### Weights

Operating Weight	48 784 kg	107,548 lb
Shipping Weight	36 154 kg	79,705 lb

- **Operating Weight:** Includes clutch/brake arrangement, lubricant, coolant, 100% fuel, hydraulic controls and fluids, 610 mm (24 in) extreme service shoes, SU-Blade, single-shank ripper, ROPS, FOPS cab and operator.
- **Shipping Weight:** Includes clutch/brake arrangement, lubricants, coolant, 20% fuel and ROPS, FOPS cab and 610 mm (24 in) extreme service shoes.

# D9R Track-Type Tractor

*The D9R's power, response and control turns out more production at a lower cost-per-yard.*

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## Engine

The rugged, easy to service 3408C engine features high torque rise (44%) for superior lugging and productivity. **pg. 4**

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## Advanced Modular Cooling System (AMOCS)

AMOCS utilizes an exclusive two pass cooling system and increased cooling surface area to provide significantly more cooling capacity than conventional systems. **pg. 5**

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## Transmission

The modular, easy to service transmission features excellent torque transfer to the final drives, maximizing tractor efficiency and productivity. **pg. 6**

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## Undercarriage

Elevated sprockets isolate final drives from ground impacts. The suspended undercarriage increases traction and reduces slippage while absorbing shocks for a smoother ride and longer machine life. **pg. 10**

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## Work Tools

Add blades, rippers and other options to customize the D9R to match your specific application. The heavy box-section blade design also helps resist twisting and cracking. **pg. 11**

*Engineered for demanding work.*

*The durable construction of the D9R is well suited for tough working conditions. It keeps material moving with the reliability and low operating costs you expect from Cat tractors.*



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### Torque Divider

The single-stage torque converter with output torque divider provides greater driveline efficiency and higher torque multiplication. **pg. 7**

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### Operator Station

The D9R operator station is designed for comfort and ease of operation. **pg. 8**

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### Structure

The strong, durable mainframe uses full box sections, steel castings and continuous rolled rails to provide durable support to the suspended undercarriage and elevated final drives. **pg. 9**

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### Serviceability

The most serviceable machines from the most committed dealers. **pg. 12**

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### Total Customer Support

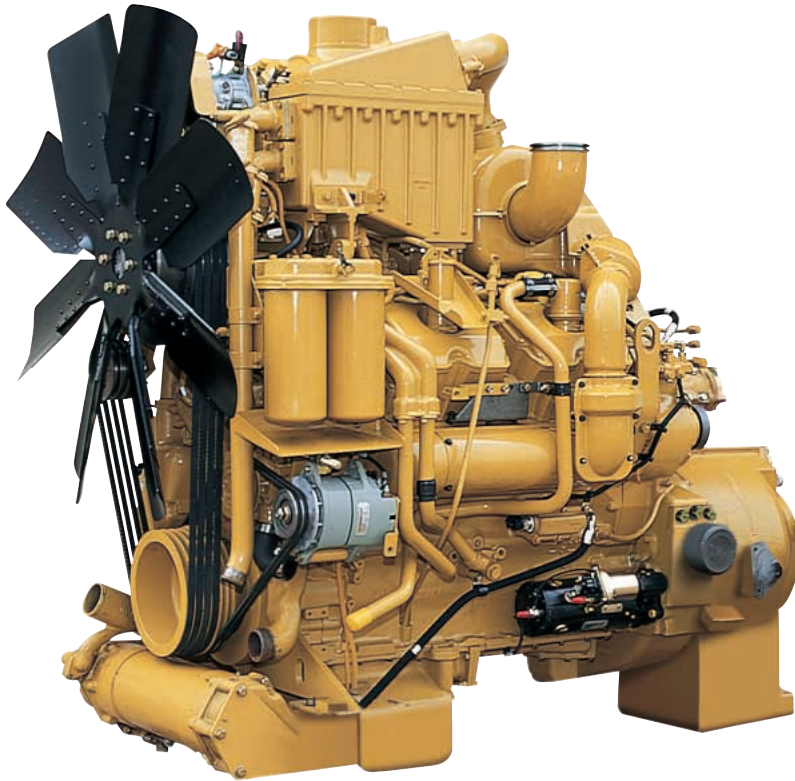
Your Caterpillar® Dealer offers a wide range of services which can be set up with a Customer Support Agreement. A customized plan, from PM service to total machine maintenance, with flexible financing, allows for optimal return on investment. **pg. 13**



✓ *New Feature*

## Engine

*The 3408C engine, when matched with the torque divider and field proven power shift transmission, will provide years of dependable service.*



**3408C DITA Engine.** The 3408C engine is a field proven engine that delivers excellent reliability and durability in many applications.

**High Torque Rise.** The 18 liter engine delivers a 44% torque rise, providing excellent lugging capacity to move heavier loads more efficiently.

**Simplicity.** The mechanically controlled engine provides ease of diagnostics in remote areas where technologically advanced diagnostic tools may not be available.

**High Tensile Strength Block.** The 3408C block is cast from high-tensile-strength gray iron. The one piece casting is stabilized to maintain internal dimensions under all operating conditions.

**Four Valve Cylinder Heads.** The engine uses two intake and two exhaust valves with hardened valve faces that are designed to be reground. Rotators turn the valves about three degrees each lift to distribute wear and maintain heat transfer. Valve stems are made from hardened, chrome plated steel to provide excellent wear and heat resistance.

**Cooling.** An internal top-deck cooling shelf increases coolant flow to the top of the cylinders for long cylinder liner and piston life. The deep-skirted lower structure and heavy internal ribbing add strength and rigidity to the block.

**Carbon Steel Forged Crankshaft.** The crankshaft is a carbon steel forging, fully heat-treated, super-finished and dynamically balanced.

## Advanced Modular Cooling System (AMOCS)

*AMOCS utilizes an exclusive two pass cooling system and increased cooling surface area to provide significantly more cooling capacity than conventional systems.*

### Separate Circuit Aftercooler.

AMOCS features a new Separate Circuit Aftercooler and aftercooler water pump, along with a variable fan drive. It also has a ground level sight gauge for quick service checks.

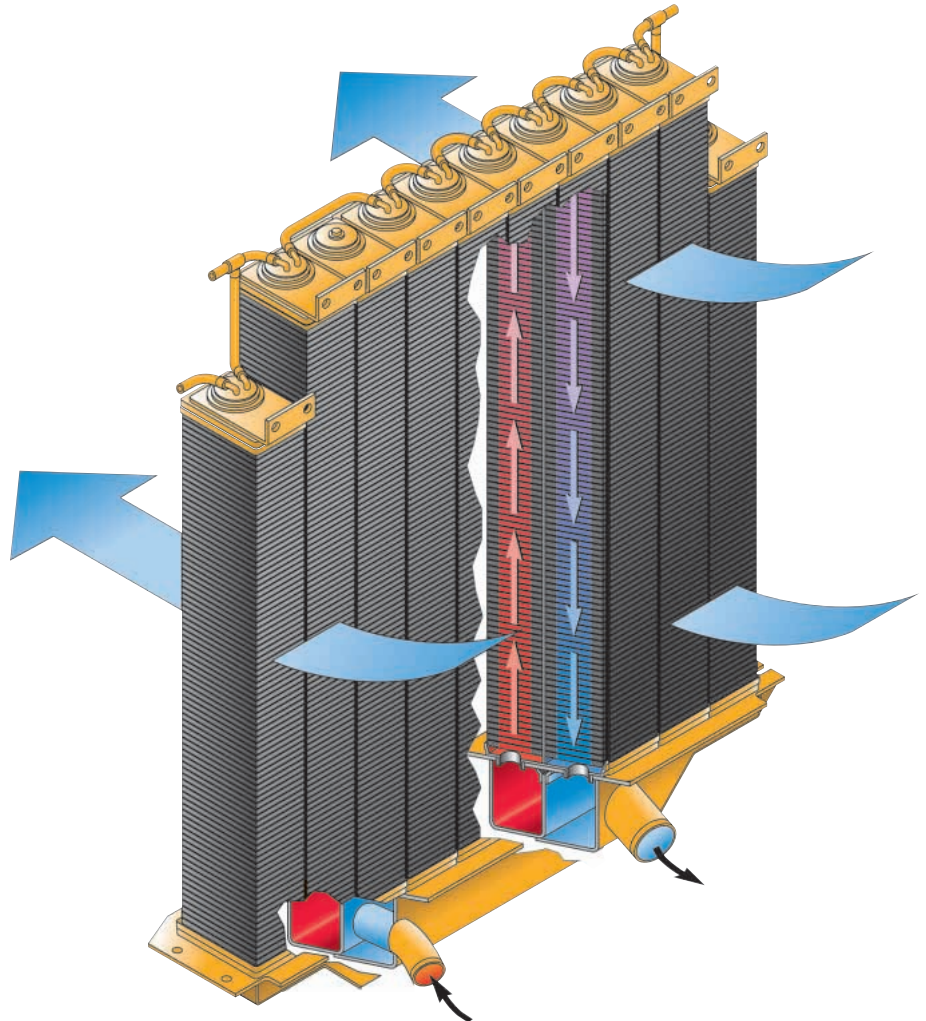
**Two Pass Cooling System.** Circulates coolant from the sectioned bottom tank up through one side of the cooling element and down through the other side returning it to the bottom tank.

**Modular Design.** The cooling elements are individual core modules that are connected to a sectioned bottom tank. There is no top tank to remove.

- With 9 steel fins per inch, a lower fin density reduces plugging.
- Brass tube construction within each core for improved reliability.

**Serviceability.** Servicing of the AMOCS can be performed without tilting the radiator guard.

- No need to remove or replace a major component as on a single-core radiator.
- Each core module can be replaced individually (without removing the entire radiator), saving considerable cost and repair time.



**Protection From Leaks.** To reduce the potential for coolant leaks, brass tubes are welded to a large, thick header, improving strength of the tube-to-

header joint. In conditions where abrasive materials can be airborne, the attachment sand blast grid should be used to prevent core damage.

## Transmission

*The standard clutch/brake steering delivers the performance you expect from a Caterpillar machine.*



**Transmission.** The proven Caterpillar planetary power shift transmission operates with three speeds forward and three speeds reverse. With this design, many gears share the load as it gets transferred to the differential. In contrast, with a countershaft transmission, just one gear carries the load.

**Single Lever Control.** One lever controls both machine speed and direction, easing operator fatigue in demanding short run applications.

**Bevel Gear Design.** Helical and spiral bevel transfer gears reduce operator and spectator sound levels by design as well as location, being placed within the rear case of the machine.

**Oil Cooled Clutch Packs.** The transmission features large oil-cooled clutch packs that efficiently absorb the energy of directional shifts for smooth machine performance and excellent operator comfort. Proprietary F37 clutch material extends clutch life, especially in applications where extensive maneuvering is used to maintain peak machine productivity. This material also minimizes transmission oil contamination compared to materials used in other manufacturers' transmissions.

**Separate Transmission Oil Reservoir.** The transmission oil sump is separate from both final drive reservoirs, controlling cross contamination in the event of a failure of either system. This allows the use of modular components to maximize uptime over the life of the tractor.

**Clutch/Brake Steering.** With clutch/brake steering, hand levers combine steering clutch disengagement and braking for each track.

**Serviceability.** In terms of serviceability, the planetary transmission provides significant advantages. The modular design simplifies removal and installation. Since the bevel gears and pinions are manufactured to such a high degree of accuracy, they do not need to be lapped and mated into sets, reducing repair costs.

## Torque Divider

*The D9R torque divider provides the efficiency benefits of a direct-drive power train while maintaining the capabilities of a converter drive.*

### **Torque Divider Performance.**

An improved single-stage torque converter sends 75% of engine torque through a converter and 25% through a direct drive shaft for greater driveline efficiency and higher torque multiplication. The torque converter provides improved efficiency and a broader range of performance in second gear dozing and scraper pushloading.

**Operating Efficiency and Driveline Reliability.** The torque converter shields the driveline from sudden torque shocks and vibration.

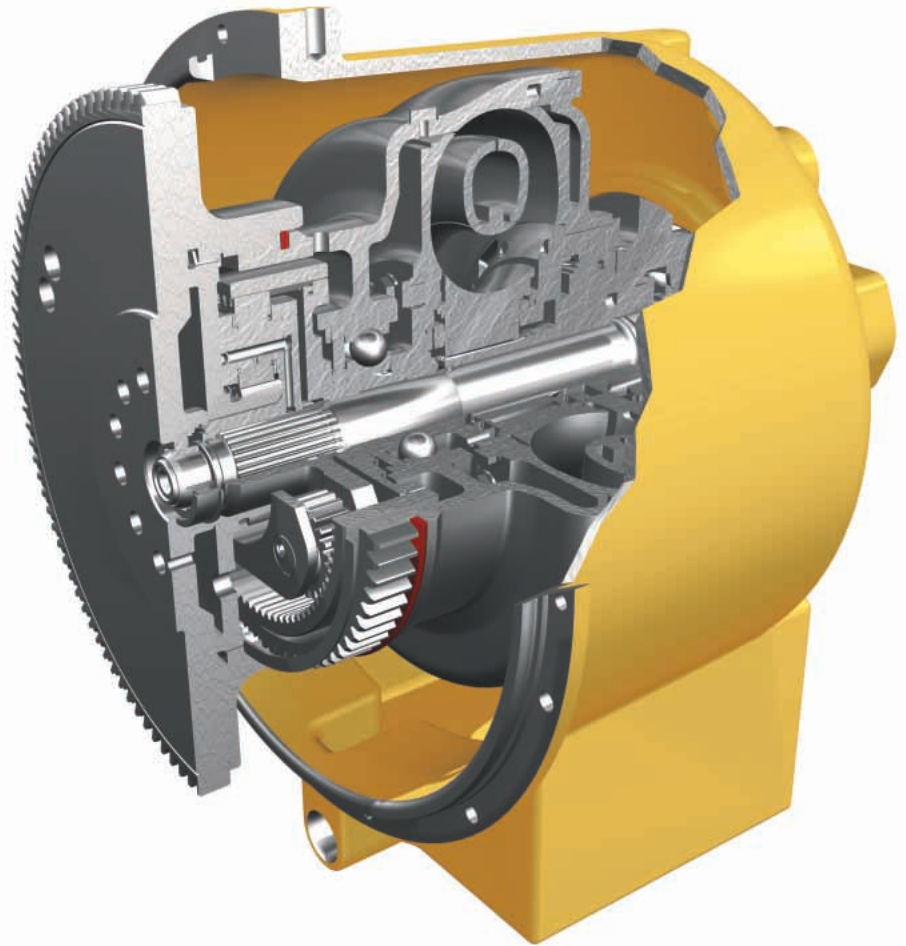
**Freewheel Stator.** Improves torque divider efficiency. During machine operation under low drawbar loads, the stator is permitted to rotate to achieve peak efficiency. The result is a reduction in heat and an increase in fuel efficiency.

**Elevated Final Drives.** Isolates final drives from ground and implement induced impact loads for extended power train life.

- Crown-shaved drive gears provide smooth, quiet, low maintenance operation.
- Splash lubrication and Duo-Cone® Seals extend service life.

### **Key Benefits of Torque Dividers.**

- High reliability.
- Proven component design.
- Low dynamic torque.



- Optimum combination of operator efficiency and driveline reliability.
- Components are designed to absorb full engine power.
- High torque multiplication to get heavy loads moving.

**Additional Feedback.** A minor, but important, by-product of the torque divider is its tendency to increase engine lug all the way to converter stall. This gives the operator additional feedback concerning tractor speed and drawbar pull.

## Operator Station

*The D9R operator station is designed for comfort and ease of operation.*



**Monitoring System.** Provides the operator instant feedback on the condition of operating systems and records such performance data as high/low gauge readings to help diagnose problems and manage undercarriage. Has gauges that monitor the temperature of the engine coolant, hydraulic oil and power train oil, plus the fuel level. Possess alert indicators that monitor engine oil pressure, inlet manifold temperature, coolant flow, electrical system, transmission oil filter, air filter service indicator and engine fault warning light. Also has a digital and gauge type tachometer.

**Comfortable Operation.** An isolation-mounted cab reduces noise and vibration. The cab is pre-wired for a 12-volt or 24-volt radio mount recessed in the headliner.

**Cat Comfort Series Seat.** The Cat Comfort Series Seat is fully adjustable and designed for comfort and support. The seat and back cushions are thicker and designed to reduce pressure on the lower back and thighs while allowing unrestricted arm and leg movement.

### **Clutch/Brake Arrangement.**

The clutch/brake steering hand levers combine steering clutch disengagement and braking for each track. Direction and speed are controlled by a single transmission control.

**Clear Full-Circle View.** A tapered hood and “notched” fuel tank give the operator a clear line of sight to the front and rear work areas. The low rear window lets the operator see the ripper tip. The large single-pane door windows allow the operator to see close-in to each side without leaning.

**Rocker Switch.** A rocker switch and decelerator pedal control engine speed. High or low idle is delivered with a touch of the finger.

### **Implement Control Lever Restraints.**

When engaged, implement control lever restraints prevent inadvertent movement of the control lever. These restraints accept standard Caterpillar padlocks.



### **Interior Storage and Amenities.**

- Intermittent windshield wipers
- 12-volt power outlet
- Small compartment under seat for use as first aid kit storage
- Inside door releases
- Lunchbox tie-downs
- Cup holder
- Cigarette ashtray
- Console pads
- Standard 24 to 12 volt converter
- Power point plug-in behind seat
- Perimeter-mounted headliner with integral radio mount, speakers and antenna

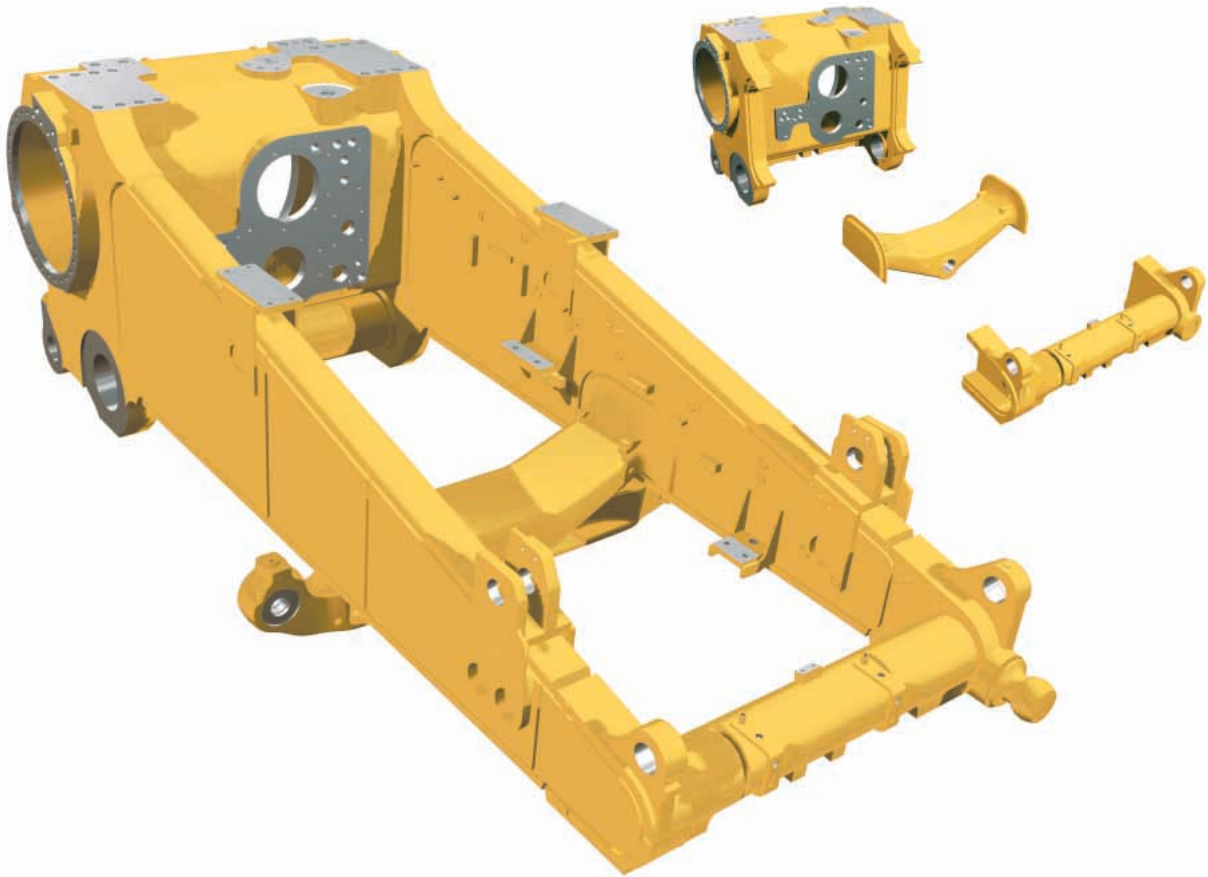
### **Suspension Isolation-Mounted Cab.**

The D9R features a suspension isolation-mounted cab with standard ROPS/FOPS.



## Structure

*Engineered and built to give solid support in the most demanding work.*



**Mainframe.** The D9R mainframe is built to absorb high impact shock loads and twisting forces.

**Heavy Steel Castings.** Heavy steel castings give added strength to the main case, equalizer bar saddle, front cross member and tag-link trunnion.

**Frame Rails.** Full box section, designed to keep components rigidly aligned.

**Top and Bottom Rails.** Continuous rolled sections with no machining or welding providing superior mainframe durability.

**Main Case.** Elevates the final drives well above the ground level work area to protect them from impact loads, abrasion and contaminants.

**Pivot Shaft and Pinned Equalizer Bar.** Maintain track roller frame alignment.

## Undercarriage

*The Caterpillar elevated sprockets are designed for better machine balance and component life.*



### **Suspended Undercarriage Design.**

Absorbs impact loads to reduce the shock loads transferred to the undercarriage by up to 50% in uneven terrain.

**Bogie Suspension.** Conforms more closely to the ground to provide more ground contact, especially in hard, uneven terrain. Higher traction means less slippage, better balance, and a smoother ride.

**Rollers and Idlers.** Feature symmetric Duo-Cone seals. Idler caps have an additional third bolt in an abutment-style cap.

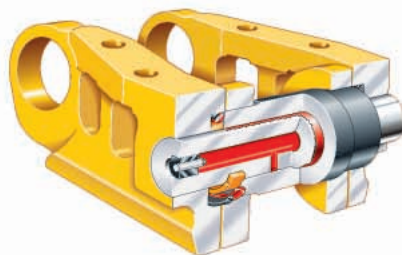
### **Idler Guards (Optional).**

Increase undercarriage life.

**Roller Frames.** Optimized track roller frame alignment and increased track roller frame adjustment length for more wear material available for use, extending link and roller wear life.

**Elevated Sprocket.** Transfers implement shock loads to the mainframe and allows the sprockets, final drives, axles and steering components to perform without absorbing excessive punishment. This allows Cat tractors to work harder and last longer than competitors' machines. The sprocket segment design increases the life of both the segment and track bushing.

**Traction.** The elevated sprocket allows more track to the rear of the roller frame, increasing traction and flotation and counteracting front-end rise during heavy dozing and drawbar applications. With more track on the ground, the D9R delivers exceptional balance, stability, and traction for excellent dozer penetration and productive ripping.



**Positive Pin Retention (PPR) Sealed and Lubricated Track.** Designed for high-impact and high load applications. The PPR exclusive Caterpillar design locks the link to the pin.

### **Sealed and Lubricated Track.**

Permanently coats the track pin with a sealed-in lubricant, minimizing metal-to-metal contact.

- Virtually eliminates internal pin and bushing wear.
- Lubricant is held in a reservoir in the track pin.

### **Other Features.**

- Tubular roller frames, to resist bending and twisting, with added reinforcement where operating loads are the highest.
- Roller frames attach to tractor by a pivot shaft and pinned equalizer bar, eliminating diagonal braces for superior ground clearance and track oscillation in poor underfoot conditions.
- Large pivot shaft bushings operate in an oil reservoir.
- A low friction, no maintenance bushing is used in the saddle connection.
- Resilient pads restrain equalizer bar oscillation.
- The recoil system is sealed and lubricated.
- Forged front track roller frames for better load distribution to maximize life.

## Work Tools

*Work Tools provide the flexibility to match the machine to the job.*



**Blades.** The Semi-Universal (SU) blade and the Universal (U) blade make full use of the D9R's power.

**Semi-Universal (SU) Blade.** Built for tough applications in tightly packed material where penetration is more important than capacity.

**Universal (U) Blade.** The U blade is efficient at moving big loads over long distances. Ideal for lighter or relatively easily dozed material.

**Dual Tilt.** Dual tilt option can improve load control.

- Allows the operator to optimize the blade pitch angle for each portion of the dozing cycle.
- Faster tilting and greater tilt angle in dual tilt mode.
- Single tilt mode provides highest pryout force.

**Single Lever Control.** A single lever controls all blade movements, including the optional dual tilt.

**Cutting Edges and End Bits.** Cutting edges are DH-2™ steel. End bits are DH-3™ to provide maximum service life in tough materials.

**Tag-Link.** Tag-Link construction brings the blade closer to the machine for more precise dozing and load control. The tag-link design provides solid lateral stability and better cylinder positions for constant pryout independent of blade height.

**Heel Clearance.** Works well in hard-to-penetrate material because of excellent heel clearance.

**Ground Engaging Tools (GET).** A large range of Ground Engaging Tools are offered.

**Rippers.** The D9R is available with either the single or multi-shank ripper and features a notched fuel tank for a better viewing area. They are made to penetrate tough material fast and rip in a variety of materials.



**Single-Shank Ripper.** The best choice in severe applications where penetration is difficult or when you need more lift.

- Operator can adjust the shank depth from the seat using an optional single shank pin puller.
- Large ripper frame view hole improves viewing of the ripper tip.
- Narrow carriage body for improved rear view.
- Heat treated, cast spacer bars in ripper carriage to extend pocket life and reduce shank notching.
- Large one-piece shank.
- Available in deep rip configuration.



**Multi-Shank Ripper.** Tailors the tractor to the material by using one, two or three shanks.

**Hydraulics.** Adjusts attachment hydraulic power to increase both operator and machine efficiency.

## Serviceability

*Simplified service means more productive uptime.*



**Built-In Servicing Ease.** Less service time means more working time. Major components are made as modules and most can be removed without disturbing or removing others.

**Spin-On Filters.** Spin-on fuel and engine oil filters save changing time. Further time is saved with fast fuel and quick oil change attachments.

**Electrical Connectors.** To improve electrical system reliability and servicing, the D9R uses sealed electrical connectors in most locations. The harness connectors lock out dust and moisture better than “bullet” or “metal twist” connectors.

**Ecology Drains.** Provide an environmentally safer method to drain fluids. Included on the radiator, hydraulic tank and major power train components.

**Advanced Modular Cooling System (AMOCS).** AMOCS individual cooling elements allow radiator servicing without major component removal, saving considerable time and cost.

**Easier Maintenance and Repair.** Experience easier maintenance and repair through monitoring key functions and logging critical indicators. Electronic diagnostic access is possible with a single tool, the Electronic Technician (Cat ET).

**Quick Disconnect Fittings.** Allow for fast diagnosis of the power train and implement oil systems.

**Fuel Tank.** Increased fuel tank capacity for full, non-stop shift between refills. Fast fuel attachment with positive fuel shut-off to prevent fuel spillage.

## Total Customer Support

*Your Cat Dealer offers a wide range of services which can be set up with a Customer Support Agreement. Your dealer can customize a plan for you, from PM service to total machine maintenance, allowing you to optimize your return on investment.*



**Dealer Commitment.** Dealers committed to fast, quality customer support. Your Cat dealer's investment in service begins with the fastest and most complete parts availability in the industry.

**Financing.** Your dealer is also an expert at arranging affordable lease, rental or purchase financing for all Caterpillar products. Consider the financing options available as well as the day-to-day operating costs.

**Machine Selection.** Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? What is the true cost of lost production? Your Cat Dealer can give you answers to these questions.

**Replacement.** Repair, rebuild, or replace? Your Cat Dealer can help evaluate the cost involved so you can make the right choice.



**Product Support.** Plan for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Programs such as Custom Track Service (CTS), S•O•S<sup>SM</sup> analysis, Technical Analysis and guaranteed maintenance contracts give peak life and performance to your machine.

**Parts Program.** You will find nearly all parts at your dealer parts counter. Cat Dealers use a world-wide computer network to find in-stock parts to minimize machine down time. Ask about your Cat Dealer's exchange program for major components. This can shorten repair time and lower costs.

**Remanufactured Components.** Save money with remanufactured parts. You receive the same warranty and reliability as new products at a cost savings of 40 to 70 percent.

## Engine

Engine Model	Cat 3408C	
Gross Power	354 kW	474 hp
Flywheel Power	302 kW	405 hp
Net Power – Caterpillar	302 kW	405 hp
Net Power – ISO 9249	302 kW	405 hp
Net Power – SAE J1349	299 kW	401 hp
Net Power – EU 80/1269	302 kW	405 hp
Net Power – DIN 70020	425 PS	
Bore	137 mm	5.4 in
Stroke	152 mm	6 in
Displacement	18 L	1099 in <sup>3</sup>

- Engine ratings apply at 1900 rpm
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No derating required up to 2286 m (7500 ft) altitude.

## Service Refill Capacities

Fuel Tank	908.4 L	240 gal
Cooling System	129.8 L	34.3 gal
Engine Crankcase*	45.5 L	12 gal
Power Train	164 L	43.4 gal
Final Drives (each)	15 L	3.9 gal
Roller Frames (each)	45 L	11.7 gal
Pivot Shaft Compartment	30 L	7.8 gal
Hydraulic Tank	77 L	20.34 gal

\* With oil filters.

## Weights

Operating Weight	48 784 kg	107,548 lb
Shipping Weight	36 154 kg	79,705 lb

- Operating Weight: Includes clutch/brake arrangement, lubricant, coolant, 100% fuel, hydraulic controls and fluids, 610 mm (24 in) extreme service shoes, SU-Blade, single-shank ripper, ROPS, FOPS cab and operator.
- Shipping Weight: Includes clutch/brake arrangement, lubricants, coolant, 20% fuel and ROPS, FOPS cab and 610 mm (24 in) extreme service shoes.

## Undercarriage

Shoe Type	Extreme Service	
Width of Shoe	610 mm	24 in
Shoes/Side	43	
Grouser Height	84 mm	3.3 in
Pitch	240 mm	9.44 in
Ground Clearance	591 mm	23 in
Track Gauge	2250 mm	88.58 in
Length of Track on Ground	3474 mm	11.4 ft
Ground Contact Area	4.24 m <sup>2</sup>	6569 in <sup>2</sup>
Track Rollers/Side	8	
Standard – Ground Pressure	112.88 kPa	16.37 psi

- Positive Pin Retention Track.

## Hydraulic Controls

Pump Type	Piston-type geared from flywheel	
Pump Output (Steering)	374 L/min	98.8 gal/min
Pump Output (Implement)	235 L/min	62.1 gal/min
Tilt Cylinder Rod End Flow	137 L/min	36.4 gal/min
Tilt Cylinder Head End Flow	167 L/min	44.2 gal/min
Bulldozer Relief Valve Setting	26 200 kPa	3800 psi
Tilt Cylinder Relief Valve Setting	19 300 kPa	2800 psi
Ripper (Lift) Relief Valve Setting	26 200 kPa	3800 psi
Ripper (Pitch) Relief Valve Setting	26 200 kPa	3800 psi
Steering	40 500 kPa	5875 psi
Tank Capacity	77.2 L	20.4 gal

- Steering Pump output measured at 1900 rpm and 26 000 kPa (3774 psi).
- Implement Pump output measured at 1900 rpm and 6895 kPa (1000 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer tilt controls. Standard hydraulic systems include two valve for use with 9SU or 9U blade and tilt.
- Complete system consists of pump, tank with filter, oil cooler, valves, lines, linkage and control levers.

## Transmission

1 Forward	3.9 kph	2.4 mph
2 Forward	6.8 kph	4.2 mph
3 Forward	11.9 kph	7.4 mph
1 Reverse	4.8 kph	3 mph
2 Reverse	8.4 kph	5.2 mph
3 Reverse	14.7 kph	9.1 mph
1 Forward – Drawbar Pull (1000)	759.8 N	170.8 lbf
2 Forward – Drawbar Pull (1000)	419.9 N	94.4 lbf
3 Forward – Drawbar Pull (1000)	230 N	51.7 lbf

## Blades

Type	9SU	
Capacity (SAE J1265)	13.5 m <sup>3</sup>	17.7 yd <sup>3</sup>
Width (over end bits)	4310 mm	14.2 ft
Height	1934 mm	6.34 ft
Digging Depth	606 mm	23.9 in
Ground Clearance	1422 mm	56 in
Maximum Tilt	940 mm	37 in
Weight* (without hydraulic controls)	6543 kg	14,425 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	48 784 kg	107,548 lb
Type	9U	
Capacity (SAE J1265)	16.4 m <sup>3</sup>	21.4 yd <sup>3</sup>
Width (over end bits)	4650 mm	15.24 ft
Height	1934 mm	6.34 ft
Digging Depth	606 mm	23.9 in
Ground Clearance	1422 mm	56 in
Maximum Tilt	1014 mm	39.9 in
Weight* (without hydraulic controls)	7134 kg	15,727 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	49 392 kg	108,890.59 lb

\* Includes blade tilt cylinder.

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

## Rippers

Type	Single-Shank, Adjustable Parallelogram	
Number of Pockets	1	
Maximum Clearance Raised (under tip, pinned in bottom hole)	882 mm	34.7 in
Maximum Penetration (standard tip)	1231 mm	48.5 in
Maximum Penetration Force (shank vertical)	153.8 kN	34,581 lb
Pry out Force	320.5 kN	72,025 lb
Weight (without hydraulic controls)	4854 kg	10,700 lb
Total Operating Weight* (with SU-Blade and Ripper)	48 784 kg	107,548 lb
Type	Multi-Shank, Adjustable Parallelogram	
Number of Pockets	3	
Overall Beam Width	2640 mm	103.9 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	885 mm	34.8 in
Maximum Penetration (standard tip)	798 mm	31.4 in
Maximum Penetration Force (shank vertical)	147.9 kN	33,249 lb
Pry out Force (Multi-Shank Ripper with one tooth)	324.6 kN	74,639 lb
Weight (one shank, without hydraulic controls)	5449 kg	12,236 lb
Additional Shank	340 kg	749 lb
Total Operating Weight* (with SU-Blade and Ripper)	49 479 kg	109,082 lb

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

## Winches

Winch Model	PA110VS	
Weight*	1790 kg	3950 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	559 mm	22 in
Winch Length	1435 mm	56.5 in
Winch Case Width	1171 mm	46.1 in
Drum Width	337 mm	13.25 in
Flange Diameter	610 mm	24 in
Recommended Cable size	24 mm	0.94 in
Optional Cable size	32 mm	1.26 in
Drum Capacity – Recommended Cable	127 m	418 ft
Drum Capacity – Optional Cable	58 m	193 ft
Cable Ferrule Sizes – Outside Diameter	60 mm	2.36 in
Cable Ferrule Sizes – Length	70 mm	2.75 in

\* Weight: Includes pump and operator controls.  
With counterweight: 3705 kg (8169 lb).

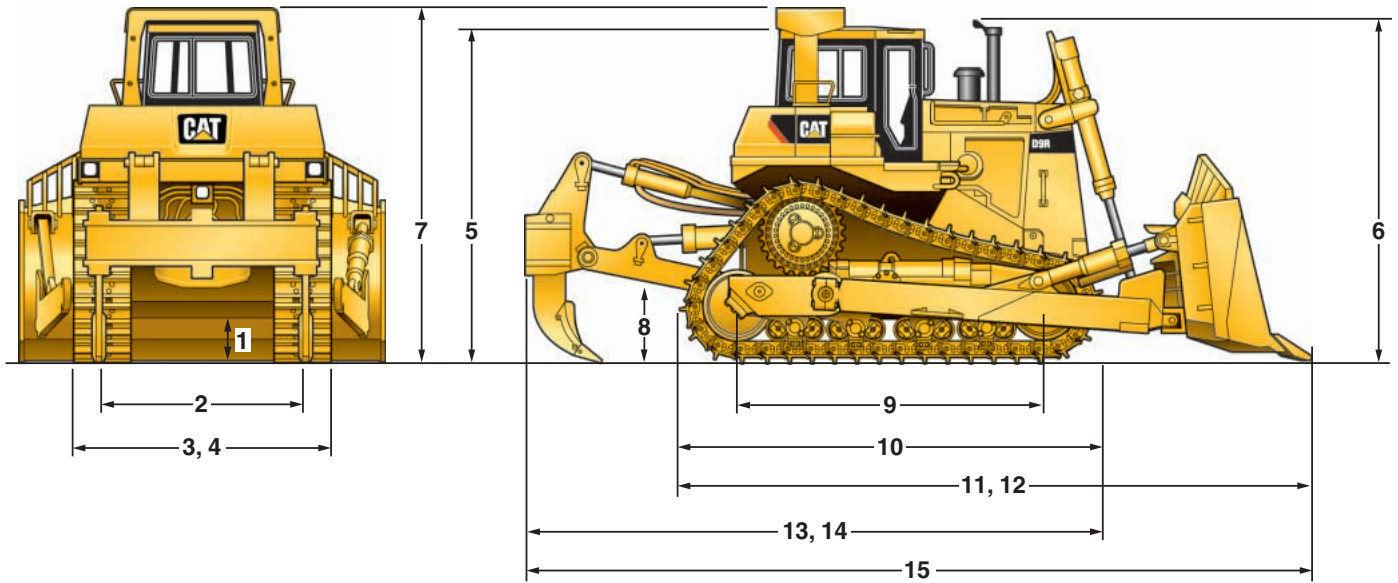
## Standards

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria SAE J1040 MAY94, ISO 3471:1994.
- FOPS (Falling Object Protective Structure) meets SAE J1503449 APR98 Level II, and ISO 3449:1992 Level II.
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 84 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/ windows open) for extended periods or in noisy environment.
- Brakes meet the standard SAE J/ISO 10265 MAR99.



# Dimensions

All dimensions are approximate.



<b>1</b>	Ground Clearance	591 mm	23 in
<b>2</b>	Track Gauge	2250 m	89 in
<b>3</b>	Width without Trunnions (Standard Shoe)	2860 mm	9.3 ft
<b>4</b>	Width Over Trunnions	3303 mm	10.84 ft
<b>5</b>	Height (FOPS Cab)	3821 mm	12.5 ft
<b>6</b>	Height (Top of Stack)	3962 mm	13 ft
<b>7</b>	Height (ROPS/Canopy)	3996 mm	13.1 ft
<b>8</b>	Drawbar Height (Center of Clevis)	688 mm	27 in

<b>9</b>	Length of Track on Ground	3474 mm	137 in
<b>10</b>	Overall Length Basic Tractor	4919 mm	16.14 ft
<b>11</b>	Length with SU-blade	6579 mm	21.58 ft
<b>12</b>	Length with U-blade	6920 mm	22.7 ft
<b>13</b>	Length with Single-Shank Ripper	6478 mm	21.3 ft
<b>14</b>	Length with Multi-Shank Ripper	6536 mm	21.4 ft
<b>15</b>	Overall Length (SU-Blade/SS Ripper)	8138 mm	26.4 ft

## Standard Equipment

*Standard equipment may vary. Consult your Caterpillar dealer for details.*

### ELECTRICAL

- Alternator, 75-amp
- Back-up alarm
- Batteries (2), 12-volt, 190 amp-hour
- 24-volt direct electric starting
- Electric hour meter
- Front action horn
- Lighting system, halogen (2 lights forward, 2 rear)
- Starting receptacle

### OPERATOR ENVIRONMENT

- Adjustable comfort series suspension seat
- Computerized Monitoring System:
  - Gauges:
    - coolant temperature
    - power train oil temperature
    - hydraulic oil temperature
    - fuel level
    - tachometer
  - Alert indicators:
    - engine oil pressure
    - coolant flow
    - inlet manifold temperature
    - electrical system
    - transmission oil filter
    - air filter
    - engine warning light
- Seat belt, retractable
- Decelerator
- Electronic governor switch
- Hydraulic control, four valve
- Rearview mirror

### UNDERCARRIAGE

- 610 mm (24 in) extreme service grouser tracks (43 section)
- Guards:
  - hinged extreme service crankcase
  - power train
  - track guides
- Hydraulic track adjusters
- Lifetime lubricated rollers and idlers
- Pinned equalizer bar
- Replaceable sprocket rim segments
- Sealed and lubricated track
- Suspension-type undercarriage with eight-roller track frames
- Two-piece master links

### POWER TRAIN

- 3408C
- Advanced Modular Cooling System (AMOCS)
- Air cleaner
- Blower fan
- Ecology drains:
  - engine oil
  - engine coolant
  - torque divider
  - transmission
  - power train oil and hydraulic system
- Ether starting aid
- Fuel priming pump
- Muffler
- Power shift transmission
- Pre-cleaner with dust ejector
- Prescreener
- Thermal shield

### OTHER STANDARD EQUIPMENT

- Front pull device
- Hinged radiator and blast deflector guards
- Implement control boots
- Implement control lever restraints
- Load sensing hydraulics
- Rain cap
- Vandalism protection includes:
  - instrument panel guard
  - cap locks for fuel tank
  - engine oil filler
  - radiator filler and dip stick
  - battery box locks (2) and left hand service area cover lock

## Optional Equipment

*Optional equipment may vary. Consult your Caterpillar dealer for details.*

### ELECTRICAL

- Converter, 24-volt to 12-volt
- Lights, supplemental:
  - 2 front, lift cylinder mounted
  - 4 front, lift cylinder mounted
  - 2 rear, ROPS mounted

### GUARDS

- Dozer lines
- Final drive – clamshell
- Final drive seals
- Metal hose protective sleeve
- Pivot shaft seals
- Power train
- Radiator, hinged
- Undercarriage

### OPERATOR ENVIRONMENT

- Air conditioner, fender mounted
- Air conditioner, ROPS mounted
- Cab, reduced operator sound
- Fan, defroster
- Glass, ultra-strength
- Operators arrangement, modified  
(improves visibility and comfort for smaller operators)
- Seat, air suspension
- Seat, vinyl

### POWER TRAIN

- Fast fuel system
- Fuel system, fast fill
- Fast oil change system
- Precleaner, turbine
- Prelub, engine

### UNDERCARRIAGE

- Tracks, pair, sealed and lubricated:
  - 710 mm (28 in), PPR Extreme Service
  - 800 mm (31.5 in), PPR Extreme Service
- Roller options:
  - Carrier rollers (one per side)

### SPECIAL ARRANGEMENTS

- Mining arrangement
- Waste handling arrangement

### BULLDOZER ARRANGEMENTS

- 10U blade, rock guard
- Dual tilt cylinder

### HYDRAULIC CONTROLS

- Dual tilt
- Pin puller
- Ripper (two additional valves)

### RIPPERS

- Single-Shank\*: Standard arrangement
- Single-shank\*: Deep ripping arrangement  
(requires pin puller and hydraulic controls)
- Multi-shank\* (includes one tooth)
- Ripper attachments:
  - Pin puller (single-shank)
  - Push block (single-shank)
  - Additional tooth  
(for multi-shank ripper)

### OTHER ATTACHMENTS

- Counterweights\*:
  - Front mounted
  - Rear mounted
  - Rear mounted (additional weight)
- Drawbar, rigid
- Heater, diesel fuel
- Heater, engine coolant, ESPAR
- Low temperature start  
(includes two additional heavy-duty batteries and additional starting motor)
- Winch\* (with counterweight), hydraulically driven

\* A rear attachment and/or counterweight is recommended for improved performance and balance.

# D9R Track-Type Tractor

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See your Caterpillar dealer for available options.

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