## Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Flywheel Power</th>
<th>Gross Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cat® 3408C</td>
<td>302 kW</td>
<td>330 kW</td>
</tr>
</tbody>
</table>

## Weights

| Operating Weight | 48 784 kg | 107,550 lb |
| Shipping Weight  | 36 154 kg | 79,705 lb  |
Features

Engine
The rugged, easy to service 3408C engine features high torque rise for superior lugging and productivity.

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

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

Serviceability and Customer Support
Combine easy access, modular components with the Cat dealer repair and rebuild capability ensures rapid machine repair and minimum downtime.

Engineered for demanding work.
The D9R’s durable construction is made for tough working conditions. It keeps material moving with the reliability and low operating costs you expect from Cat® tractors.
Engine
Delivers excellent reliability and durability for years of service.

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

High Torque Rise
The 18 liter engine delivers a high 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 diagnostic tools may not be available.

Durability
Designed to be rebuilt over and over. Tolerant of many different levels of fuel and oil quality.

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
Superior cooling in the most demanding work conditions.

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 standard 9 steel fins per inch, a lower fin density reduces plugging.
- Brass tube construction within each core for improved reliability.
- Optional core configurations are available for high ambient and/or high wear applications.

Easy Serviceability
Servicing of the AMOCS can be performed without tilting the radiator guard. 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
Delivers the performance you expect from a Cat® machine.

Transmission
The proven Cat 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 axles. 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 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
Provides optimum operator efficiency and driveline reliability.

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 divider provides improved efficiency and a broader range of performance in second gear dozing and scraper push loading.

Operating Efficiency and Driveline Reliability
The torque divider 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.

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
Designed for comfort and ease of operation.

**Monitoring System**
Provides the operator instant feedback on the condition of operating systems and records performance data to help diagnose problems. Gauges monitor the temperature of the engine coolant, hydraulic oil, power train oil, and fuel level. Includes alert indicators that monitor engine oil pressure, coolant flow, electrical system and transmission oil filter.

**Comfortable Operation**
An optional isolation-mounted cab reduces noise and vibration. The Cat Comfort Series Seat is fully adjustable and designed for comfort and support. The seat and back cushions are thicker to reduce pressure on the lower back and thighs while allowing unrestricted arm and leg movement.

**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 clear sight to each side without leaning.

**Interior Storage and Amenities**
Includes intermittent windshield wipers, 12-volt power outlet, first aid kit storage, inside door releases, lunch box tie-downs, cup holder, console pads, standard 24 to 12 volt converter, speakers and antenna.

**Isolation-Mounted Operators Platform**
The D9R features an isolation-mounted operators platform with standard ROPS/FOPS.
Structure
Engineered for maximum production and service life.

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
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%.

**Bogie Suspension**
Provides 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 the abutment-style joint.

**Roller Frames**
Tubular design resists bending and twisting and includes added reinforcement where operating loads are the highest. Alignment is optimized for undercarriage wear, and increased track frame adjustment length provides more wear material 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 reducing the opportunity for premature loss of lubrication. Sealed design permanently coats the track pin with lubricant, minimizing metal-to-metal contact and virtually eliminating internal pin and bushing wear.

**Other Features**
- 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.
- Idler Guards (optional), increase undercarriage life.
Work Tools

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

Bulldozers
Blades are made of Cat DH-2™ steel with high tensile strength and stands up to the most severe applications. Heavy moldboard construction and bolt-on cutting edges and end bits add strength and durability.
- Universal Blade – Efficient at moving big loads over long distances.
- Semi-Universal Blade – Built for tough applications in tightly packed material where penetration is important.
- Optional Dual Tilt – Allows the operator to optimize the blade pitch angle for each portion of the dozing cycle.
- Cutting Edges and End Bits – Cutting edges are DH-2™ steel. End bits are DH-3™ to provide maximum service life in tough materials.

Rippers
- Multi-Shank Ripper – Tailors the tractor to the material by using one, two or three shanks.
- Single-Shank Ripper – Operator can adjust the shank depth from the seat using an optional single shank pin puller. Large one-piece shank, available in deep rip configuration.

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

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.

Hydraulics
Automatically adjusts work tool hydraulic power to maximize machine efficiency.
Serviceability
The most serviceable machines from the most committed dealers.

**Built-In Servicing Ease**
Major components are made as modules and 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, sealed electrical connectors are used 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.

**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 a full, non-stop shift between refills. Fast fuel attachment with positive fuel shut-off to prevent fuel spillage.
Customer Support
The Cat dealer network keeps your fleet up and running.

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℠ 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.
Dimensions
All dimensions are approximate.

<table>
<thead>
<tr>
<th></th>
<th>mm</th>
<th>in</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ground Clearance</td>
<td>588</td>
</tr>
<tr>
<td>2</td>
<td>Track Gauge</td>
<td>2250</td>
</tr>
<tr>
<td>3</td>
<td>Width without Trunnions (Standard Shoe)</td>
<td>2898</td>
</tr>
<tr>
<td>4</td>
<td>Width Over Trunnions</td>
<td>3308</td>
</tr>
<tr>
<td>5</td>
<td>Height (FOPS Cab)</td>
<td>3821</td>
</tr>
<tr>
<td>6</td>
<td>Height (Top of Stack)</td>
<td>4005</td>
</tr>
<tr>
<td>7</td>
<td>Height (ROPS/Canopy)</td>
<td>3998</td>
</tr>
<tr>
<td>8</td>
<td>Drawbar Height (Center of Clevis)</td>
<td>765</td>
</tr>
<tr>
<td>9</td>
<td>Length of Track on Ground</td>
<td>3474</td>
</tr>
<tr>
<td>10</td>
<td>Overall Length Basic Tractor</td>
<td>4908</td>
</tr>
<tr>
<td>11</td>
<td>Length Basic Tractor with Drawbar</td>
<td>5243</td>
</tr>
<tr>
<td>12</td>
<td>Length Basic Tractor with Winch</td>
<td>5545</td>
</tr>
<tr>
<td>13</td>
<td>Length with SU-Blade</td>
<td>6592</td>
</tr>
<tr>
<td>14</td>
<td>Length with U-Blade</td>
<td>6931</td>
</tr>
<tr>
<td>15</td>
<td>Length with Single-Shank Ripper</td>
<td>6529</td>
</tr>
<tr>
<td>16</td>
<td>Length with Multi-Shank Ripper</td>
<td>6539</td>
</tr>
<tr>
<td>17</td>
<td>Overall Length (SU-Blade/SS Ripper)</td>
<td>8214</td>
</tr>
</tbody>
</table>
# D9R Track-Type Tractor Specifications

## Engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat 3408C</td>
</tr>
<tr>
<td>Gross Power</td>
<td>330 kW</td>
</tr>
<tr>
<td>Net Power</td>
<td>443 hp</td>
</tr>
<tr>
<td>SAE J1349/ISO 9249</td>
<td>302 kW / 405 hp</td>
</tr>
<tr>
<td>EU 80/1269</td>
<td>302 kW / 405 hp</td>
</tr>
<tr>
<td>Bore</td>
<td>137 mm</td>
</tr>
<tr>
<td>Stroke</td>
<td>152 mm / 6 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>18 L / 1,099 m³</td>
</tr>
</tbody>
</table>

- Engine ratings apply at 1,900 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 (7,500 ft) altitude.

## Weights

<table>
<thead>
<tr>
<th>Weight Type</th>
<th>Operating</th>
<th>Shipping</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>48,784 kg / 107,550 lb</td>
<td>36,154 kg / 79,705 lb</td>
</tr>
</tbody>
</table>

- 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

<table>
<thead>
<tr>
<th>Shoe Type</th>
<th>Extreme Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width of Shoe</td>
<td>610 mm / 24 in</td>
</tr>
<tr>
<td>Grouser Height</td>
<td>84 mm / 3.3 in</td>
</tr>
<tr>
<td>Pitch</td>
<td>240 mm / 9.44 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>591 mm / 23 in</td>
</tr>
<tr>
<td>Track Gauge</td>
<td>2250 mm / 88.58 in</td>
</tr>
<tr>
<td>Length of Track on Ground</td>
<td>3474 mm / 11 ft 5 in</td>
</tr>
<tr>
<td>Ground Contact Area</td>
<td>4.24 m² / 6,569 in²</td>
</tr>
<tr>
<td>Track Rollers/Side</td>
<td>8</td>
</tr>
</tbody>
</table>

- Positive Pin Retention Track.

## Fuel Tank

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>889 L / 235 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>125 L / 33 gal</td>
</tr>
<tr>
<td>Engine Crankcase</td>
<td>45.5 L / 12 gal</td>
</tr>
<tr>
<td>Power Train</td>
<td>164 L / 43.4 gal</td>
</tr>
<tr>
<td>Final Drives (each)</td>
<td>15 L / 3.9 gal</td>
</tr>
<tr>
<td>Roller Frames (each)</td>
<td>45 L / 11.9 gal</td>
</tr>
<tr>
<td>Pivot Shaft</td>
<td>30 L / 7.9 gal</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>77.2 L / 20.4 gal</td>
</tr>
</tbody>
</table>

* With oil filters.

## Hydraulic Controls

<table>
<thead>
<tr>
<th>Control Type</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Type</td>
<td>Piston-type geared from flywheel</td>
</tr>
<tr>
<td>Pump Output (Implement)</td>
<td>239 L/min / 63.1 gal/min</td>
</tr>
<tr>
<td>Tilt Cylinder Rod End Flow</td>
<td>137 L/min / 36.4 gal/min</td>
</tr>
<tr>
<td>Tilt Cylinder Head End Flow</td>
<td>167 L/min / 44.2 gal/min</td>
</tr>
<tr>
<td>Bulldozer Relief Valve Setting</td>
<td>26200 kPa / 3800 psi</td>
</tr>
<tr>
<td>Tilt Cylinder Relief Valve Setting</td>
<td>19300 kPa / 2800 psi</td>
</tr>
<tr>
<td>Ripper (Lift) Relief Valve Setting</td>
<td>26200 kPa / 3800 psi</td>
</tr>
<tr>
<td>Ripper (Pitch) Relief Valve Setting</td>
<td>26200 kPa / 3800 psi</td>
</tr>
</tbody>
</table>

- Implement Pump output measured at 1,900 rpm and 6895 kPa (1,000 psi).
- Complete system consists of pump, tank with filter, valves, lines, linkage and control levers.

## Transmission

<table>
<thead>
<tr>
<th>Speed Type</th>
<th>Speed (km/h)</th>
<th>Speed (mph)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Forward</td>
<td>3.9</td>
<td>2.4</td>
</tr>
<tr>
<td>2 Forward</td>
<td>6.8</td>
<td>4.2</td>
</tr>
<tr>
<td>3 Forward</td>
<td>11.9</td>
<td>7.4</td>
</tr>
<tr>
<td>1 Reverse</td>
<td>4.8</td>
<td>3.0</td>
</tr>
<tr>
<td>2 Reverse</td>
<td>8.4</td>
<td>5.2</td>
</tr>
<tr>
<td>3 Reverse</td>
<td>14.7</td>
<td>9.1</td>
</tr>
<tr>
<td>1 Forward – Drawbar Pull (1000)</td>
<td>725 N / 163 lbf</td>
<td></td>
</tr>
<tr>
<td>2 Forward – Drawbar Pull (1000)</td>
<td>400 N / 90 lbf</td>
<td></td>
</tr>
<tr>
<td>3 Forward – Drawbar Pull (1000)</td>
<td>218 N / 49 lbf</td>
<td></td>
</tr>
</tbody>
</table>
### Blades

<table>
<thead>
<tr>
<th>Type</th>
<th>9SU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (SAE J1265)</td>
<td>13.5 m³ 17.7 yd³</td>
</tr>
<tr>
<td>Width (over end bits)</td>
<td>4310 mm 14 ft 2 in</td>
</tr>
<tr>
<td>Height</td>
<td>1934 mm 6 ft 4 in</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>606 mm 23.9 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1422 mm 46 in</td>
</tr>
<tr>
<td>Maximum Tilt</td>
<td>940 mm 37 in</td>
</tr>
<tr>
<td>Weight* (without hydraulic controls)</td>
<td>6543 kg 14,425 lb</td>
</tr>
<tr>
<td>Total Operating Weight** (with Blade and Single-Shank Ripper)</td>
<td>48 784 kg 107,548 lb</td>
</tr>
</tbody>
</table>

### Rippers

<table>
<thead>
<tr>
<th>Type</th>
<th>Single-Shank, Adjustable Parallelogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Added Length</td>
<td>1570 mm 5 ft 2 in</td>
</tr>
<tr>
<td>Number of Pockets</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Clearance Raised (under tip, pinned in bottom hole)</td>
<td>882 mm 34.7 in</td>
</tr>
<tr>
<td>Maximum Penetration (standard tip)</td>
<td>1231 mm 48.5 in</td>
</tr>
<tr>
<td>Maximum Penetration Force** (shank vertical)</td>
<td>153.8 kN 34,581 lb</td>
</tr>
<tr>
<td>Pry out Force</td>
<td>320.5 kN 72,025 lb</td>
</tr>
<tr>
<td>Weight (without hydraulic controls)</td>
<td>4854 kg 10,700 lb</td>
</tr>
<tr>
<td>Total Operating Weight* (with SU-Blade and Ripper)</td>
<td>48 784 kg 107,548 lb</td>
</tr>
</tbody>
</table>

### Winches

<table>
<thead>
<tr>
<th>Model</th>
<th>PA140VS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight*</td>
<td>1790 kg 3,950 lb</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>15 L 4 gal</td>
</tr>
<tr>
<td>Increased Tractor Length</td>
<td>559 mm 22 in</td>
</tr>
<tr>
<td>Winch Case Width</td>
<td>1171 mm 46.1 in</td>
</tr>
<tr>
<td>Drum Width</td>
<td>337 mm 13.25 in</td>
</tr>
<tr>
<td>Flange Diameter</td>
<td>610 mm 24 in</td>
</tr>
</tbody>
</table>

### Standards

- **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 83 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.

---

* 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.

---

* 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.
** Single-Shank cross section is larger than Multi-Shank cross section.
D9R Standard Equipment

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

ELECTRICAL
Alternator, 75 amp
Back-up alarm
Batteries, 12-volt (2), 190 amp-hour
Horn, forward warning
Lighting system, halogen
(2 forward, 2 rear)
Starting Receptacle

Lifetime lubricated rollers and idlers
Pinned equalizer bar
Sprocket rim segments, replaceable
Suspension-type undercarriage, eight-roller tubular track roller frame
Track adjusters, hydraulic
Track guides
Two-piece master links

POWER TRAIN
3408C DITA diesel engine
Advanced Modular Cooling System (AMOCS)
Blower fan
Clutch-brake with combined steering and brake control levers
Coolant, extended life
Drains, ecology fluid
Ether starting aid
Final drives, 3 planet double reduction planetary
Fuel priming pump
Muffler

Power shift transmission (3F/3R)
Precleaner with dust ejector
Prescreener
Separator, water/fuel
Thermal shield
Torque divider

OTHER STANDARD EQUIPMENT
CD ROM parts book
Engine enclosure
Guards – Bottom, hinged extreme service with front towing device
Load sensing hydraulics
Mounting, lift cylinders
Radiator, hinged
Rain cap
Service instructions, international
Vandalism protection (8 caplocks)

OPERATOR ENVIRONMENT
Canopy, ROPS/FOPS
Cat D9R Monitoring System
Decelerator and governor control
Hydraulic control lever restraints
Hydraulic system, four valve
Mirror, rearview
Seat, vinyl suspension
Seat belt, retractable 76 mm (3 in)

UNDERCARRYAGE
610 mm (24 in) extreme service grouser
with sealed and lubricated PPR track
(43 section)
Optional equipment may vary. Consult your Cat dealer for details.

**ELECTRICAL**
- Alternator, 100 amp
- Converter, 24-volt to 12-volt
- Lights, supplemental (3 variations)

**GUARDS**
- Dozer lines
- Final drive seals
- Fuel tank
- Pivot shaft seals
- Undercarriage

**OPERATOR ENVIRONMENT**
- Air conditioner (2 variations)
- Cab
- Glass, dual pane with fan defroster
- Seat, air suspension

**POWER TRAIN**
- Fast fuel system
- Fast oil change system
- Grid, radiator core protector
- Precleaner, turbine
- Prelub engine

**UNDERCARRIAGE**
- Tracks, sealed and lubricated
- 560 mm (22 in) PPR Extreme Service
- 685 mm (27 in) PPR Extreme Service
- 760 mm (30 in) PPR Extreme Service
- Carrier Rollers

**SPECIAL ARRANGEMENTS**
- Arctic package
- Cold weather package
- DCA 1 Heavy Construction Lane 1
- DCA 2 Arctic Lane 1
- Desert arrangement
- Steel mill arrangement

**BULLDOZER ARRANGEMENTS**
- 9SU abrasion resistant blade
- 9U abrasion resistant blade
- Trunnions

**HYDRAULIC CONTROLS**
- Dual tilt

**RIPPERS**
- Single shank
- Multi shank
- Pin puller (single shank only)
- Push block (single shank only)
- Ripper shank (multiple variations)

**OTHER ATTACHMENTS**
- Counterweights (rear and additional)
- Drawbar, rigid
- Heater, Espar coolant
- Low temperature start
  (includes two additional batteries)
- Omission, engine enclosure
- Paint, black hood and cylinders
- Winch (with counterweight)