<table>
<thead>
<tr>
<th>Engine</th>
<th>Weights</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine Model</strong></td>
<td><strong>Operating Weight</strong></td>
</tr>
<tr>
<td>Cat® 3408C</td>
<td>48 784 kg</td>
</tr>
<tr>
<td>Net Power – SAE J1349/ISO 9249</td>
<td>107 550 lb</td>
</tr>
<tr>
<td>302 kW</td>
<td>36 154 kg</td>
</tr>
<tr>
<td>405 hp</td>
<td>79 705 lb</td>
</tr>
</tbody>
</table>
Helping you get more done at the lowest cost per unit of material moved.

Contents
Engine .................................................................4
Advanced Modular Cooling System .............5
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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 dozers.
Engine
Power and reliability to help you move more.

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 easy maintenance and repair in remote areas where 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
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 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.

Attachments
In conditions with airborne abrasive materials an optional coated blower fan and sand blast grid should be used to minimize radiator 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.

Bevel Gear Design
Helical and spiral bevel transfer gears reduce operator and spectator sound levels by design as well as location, being placed in 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
Hand levers with combined steering, control clutch disengagement and brake application 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 your comfort, convenience, and productivity.

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

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.

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.

Wide Panoramic 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.

Isolation-Mounted Operators Platform
The D9R features an isolation-mounted operators platform with standard ROPS/FOPS.
**Frame Rails**
Full box section, designed to keep components rigidly aligned.

**Top and Bottom Rails**
Top and bottom rails are made from continuous rolled sections 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 and allow the roller frame to oscillate for smoother ride.

**Equalizer Bar End Pins**
Proper grease lubrication on working surfaces can significantly extend component life and help lower maintenance cost. Remote lubrication is performed from a service point conveniently located on the left hand side of the engine compartment and allows an operator or service technician to lubricate both the left hand and right hand equalizer bar pin bearings and pins from one service point.

**Tag-Link**
Tag-Link blade mounting brings the blade closer to the machine for excellent maneuverability, machine balance and blade penetration. This design also eliminates the need for diagonal bracing by transferring side loads to the mainframe, instead of the dozer push arms.

**Mainframe**
The D9R mainframe is built to absorb high impact shock loads and twisting forces encountered during severe dozing and ripping applications.

**Heavy Steel Castings**
The main case, equalizer bar saddle, and front cross member are heavy duty steel castings incorporated into highly loaded areas of the mainframe to improve stress distribution for improved durability.
Undercarriage
Designed for optimized machine balance and best performance at your site.

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.
The elevated sprocket and fully suspended undercarriage work together, increasing traction while creating a smoother ride for your operators. The elevated sprocket design transfers implement shock loads to the mainframe, so final drives, axles and steering components are isolated from harsh impacts. These benefits translate into higher production and longer component life.

- Bogie Suspension allows the track to conform to ground condition, providing up to 15% more ground contact, especially in hard, uneven terrain. Higher traction means less slippage, better balance, and a smoother ride.
- Roller frames are tubular to resist bending and twisting, with added reinforcement where operating loads are highest.
- The undercarriage idler guard provides additional wear protection from abrasive material to the moving undercarriage. Includes rubber idler protectors.
Work Tools
Provide flexibility to match the machine to your job.

Bulldozers
All blades feature a strong box-section design that resists twisting and cracking. Blades are made of high tensile strength steel that stands up to the most demanding applications.
- **High-Capacity 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.
- **Cutting Edges and End Bits** – Cutting edges are DH-2™ steel. End bits are DH-3™ to provide maximum service life in tough materials. For extremely severe applications, moldboard wear plates, extended wear life end bits and cutting edges are available.
- **Cat Work Tools** offer a range of special application blades, including coal stockpile blade, cushion dozer blade, reclamation blades and wood chip blade.

Rippers
- **Single-Shank Ripper** – Built for tough ripping conditions and greater ripping depth. 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.
- **Multi-Shank Ripper** – Generally for lighter duty ripping applications in less severe materials. Provides high levels of productivity. Tailors the tractor to the material by using one, two or three shanks.

**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.

**Rear Counterweights**
Provide proper tractor balance to maximize dozing production. Recommended if dozer is not equipped with any other rear attachment.
Serviceability
Reduce service time to increase your uptime.

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 knows how to keep your machines moving.

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.

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.

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.

Product Link™/VisionLink®
Cellular Product Link (optional) is deeply integrated into your machine, helping you take the guesswork out of equipment management. Cellular Product Link transmits basic health, machine location, and utilization data for remote machine monitoring via the on-line VisionLink user interface which can help you effectively manage your fleet and lower operating costs.
# D9R Dozer Specifications

## 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>596</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>2880</td>
</tr>
<tr>
<td>4</td>
<td>Width over Trunnions</td>
<td>3300</td>
</tr>
<tr>
<td>5</td>
<td>Height (FOPS Cab)*</td>
<td>3820</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>4000</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>3470</td>
</tr>
<tr>
<td>10</td>
<td>Overall Length Basic Tractor</td>
<td>4910</td>
</tr>
<tr>
<td>11</td>
<td>Length Basic Tractor with Drawbar</td>
<td>5180</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>6880</td>
</tr>
<tr>
<td>14</td>
<td>Length with U-Blade</td>
<td>6967</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>6538</td>
</tr>
<tr>
<td>17</td>
<td>Overall Length (SU-Blade/SS Ripper)</td>
<td>8230</td>
</tr>
</tbody>
</table>

*Includes grouser height for total dimensions on hard surfaces.

**Includes drawbar.

*All dimensions are approximate.*
## D9R Dozer Specifications

### Engine

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Model</td>
<td>Cat 3408C</td>
</tr>
<tr>
<td>Bore</td>
<td>137 mm (5.4 in)</td>
</tr>
<tr>
<td>Stroke</td>
<td>152 mm (6 in)</td>
</tr>
<tr>
<td>Displacement</td>
<td>18 L (1,099 in³)</td>
</tr>
<tr>
<td>Engine Power</td>
<td></td>
</tr>
<tr>
<td>Gross Power – SAE J1995*</td>
<td>330 kW (443 hp)</td>
</tr>
<tr>
<td>Net Power – SAE J1349/ISO 9249</td>
<td>302 kW (405 hp)</td>
</tr>
</tbody>
</table>

*Excludes all fan losses.
• 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.

### Undercarriage

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe Type</td>
<td>Extreme Service</td>
</tr>
<tr>
<td>Width of Shoe</td>
<td>610 mm (24 in)</td>
</tr>
<tr>
<td>Shoes/ Side</td>
<td>43</td>
</tr>
<tr>
<td>Grouser Height – Extreme Service (ES)</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>596 mm (23.4 in)</td>
</tr>
<tr>
<td>Track Gauge</td>
<td>2250 mm (88.6 in)</td>
</tr>
<tr>
<td>Length of Track on Ground</td>
<td>3470 mm (136.6 in)</td>
</tr>
<tr>
<td>Ground Contact Area</td>
<td>4.24 m² (6,569 in²)</td>
</tr>
</tbody>
</table>

### Hydraulic Controls

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>889 L (235 gal)</td>
</tr>
<tr>
<td>Cooling System</td>
<td>163 L (43 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 Compartment</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.

### Service Refill Capacities

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Operating Weight</td>
<td>48 784 kg (107,550 lb)</td>
</tr>
<tr>
<td>Shipping Weight</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.

### Weights

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transmission</td>
<td></td>
</tr>
<tr>
<td>1 Forward</td>
<td>3.9 km/h (2.4 mph)</td>
</tr>
<tr>
<td>2 Forward</td>
<td>6.8 km/h (4.2 mph)</td>
</tr>
<tr>
<td>3 Forward</td>
<td>11.9 km/h (7.4 mph)</td>
</tr>
<tr>
<td>1 Reverse</td>
<td>4.7 km/h (2.9 mph)</td>
</tr>
<tr>
<td>2 Reverse</td>
<td>8.4 km/h (5.2 mph)</td>
</tr>
<tr>
<td>3 Reverse</td>
<td>14.7 km/h (9.1 mph)</td>
</tr>
<tr>
<td>1 Forward – Drawbar Pull</td>
<td>725 000 N (163,000 lbf)</td>
</tr>
<tr>
<td>2 Forward – Drawbar Pull</td>
<td>400 000 N (90,000 lbf)</td>
</tr>
<tr>
<td>3 Forward – Drawbar Pull</td>
<td>218 000 N (49,000 lbf)</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</td>
</tr>
<tr>
<td>Width (over end bits)</td>
<td>4310 mm</td>
</tr>
<tr>
<td>Height</td>
<td>1934 mm</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>606 mm</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1422 mm</td>
</tr>
<tr>
<td>Maximum Tilt</td>
<td>940 mm</td>
</tr>
<tr>
<td>Weight* (without hydraulic controls)</td>
<td>6863 kg</td>
</tr>
<tr>
<td>Total Operating Weight** (with Blade and Single-Shank Ripper)</td>
<td>48 784 kg</td>
</tr>
</tbody>
</table>

* 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

### Adjustable Parallelogram Single-Shank Standard/Deep

<table>
<thead>
<tr>
<th>Type</th>
<th>Adjustable Parallelogram Single-Shank Standard/Deep</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall Beam Width</td>
<td>NA</td>
</tr>
<tr>
<td>Number of Shank Holes</td>
<td>3/3</td>
</tr>
<tr>
<td>Maximum Clearance Raised (under tip, pinned in bottom hole)</td>
<td>882 mm</td>
</tr>
<tr>
<td></td>
<td>817 mm</td>
</tr>
<tr>
<td>Maximum Penetration (standard tip)</td>
<td>1231 mm</td>
</tr>
<tr>
<td></td>
<td>1272 mm</td>
</tr>
<tr>
<td>Maximum Penetration Force (shank vertical)</td>
<td>158 kN</td>
</tr>
<tr>
<td></td>
<td>172 kN</td>
</tr>
<tr>
<td>Pry Out Force</td>
<td>332 kN</td>
</tr>
<tr>
<td></td>
<td>331 kN</td>
</tr>
<tr>
<td>Weight (with one shank)</td>
<td>4293 kg</td>
</tr>
<tr>
<td></td>
<td>4420 kg</td>
</tr>
<tr>
<td>Total Operating Weight* (with SU-Blade and Ripper)</td>
<td>48 784 kg</td>
</tr>
</tbody>
</table>

* Includes (1) shank, add 347 kg for each additional shank.

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

## Winches

<table>
<thead>
<tr>
<th>Winch Model</th>
<th>PA140VS</th>
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</thead>
<tbody>
<tr>
<td>Weight*</td>
<td>1790 kg</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>15 L</td>
</tr>
<tr>
<td>Increased Tractor Length</td>
<td>557 mm</td>
</tr>
<tr>
<td>Drum Width</td>
<td>320 mm</td>
</tr>
<tr>
<td>Wire Cable Diameter</td>
<td></td>
</tr>
<tr>
<td>Recommended</td>
<td>28 mm</td>
</tr>
<tr>
<td>Optional</td>
<td>32 mm</td>
</tr>
<tr>
<td>Maximum Drum Capacity</td>
<td></td>
</tr>
<tr>
<td>Recommended Cable Length</td>
<td>78 m</td>
</tr>
<tr>
<td>Optional Cable Length</td>
<td>62 m</td>
</tr>
<tr>
<td>Wire Cable Ferrule Size – Outside Diameter</td>
<td>60 mm</td>
</tr>
<tr>
<td>Wire Cable Ferrule Size – Length</td>
<td>70 mm</td>
</tr>
</tbody>
</table>

* **Weight: Weight shown is base winch only. Does not include mounting arrangement, control arrangement, oil, or wire rope. With counterweight: 3700 kg (8,150 lb).**

• Variable speed, hydraulically driven, dual braking system, three-roller fairlead.

## Standards

- FOPS (Falling Object Protective Structure) meets SAE J/ISO 3449 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.
**D9R Standard Equipment**

**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
- Converter, 10-volt, 10 amp
- Horn, forward warning
- Lighting system
  - Two on fender facing forward
  - Two on fender facing rearward
  - Two on top of the lift cylinders
- Starting receptacle

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

**UNDERCARRIAGE**
- 610 mm (24 in) extreme service grouser with sealed and lubricated PPR track (43 section)
- 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
- Final drives, three 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
- Ecology drains
- 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)
Optional Equipment
Optional equipment may vary. Consult your Cat dealer for details.

ELECTRICAL
• Alternator, 105 amp
• Battery
  – Arctic (includes four batteries)
  – Heavy Duty (includes four batteries)
• Converter, 24-volt to 12-volt
  (includes 20 amp converter)
• Lights, 10 halogen
  – Two on fender facing forward
  – Two on fender facing rearward
  – Four on top of lift cylinders
  – Two on sides of ROPS facing rearward

GUARDS
• Dozer lines
• Fuel tank
• Rear screen
• Undercarriage idlers

OPERATOR ENVIRONMENT
• Air conditioner (under hood or fender)
• Cab (standard, arctic or steel mill)
• Seat
  – Vinyl seat with mechanical suspension
  – Cloth seat with air suspension

POWER TRAIN
• Coolant – arctic
• Ether starting aid
• Fan
  – Desert
  – Reversible
• Fast fuel system
• Final drives
  – Guarded
  – Cold weather
  – Steel mill
• Grid, radiator core protector
  – Grid, coated radiator core protector
• Lubrication
  – Arctic
  – High ambient
  – Steel mill
• Precleaner, turbine or turbine with screen
• Prelube engine
• Radiator
  – Copper-nickel (in conditions with
    airborne abrasive materials)
  – High ambient

UNDERCARRIAGE
• Tracks, PPR, sealed and lubricated
• 560 mm (22 in) Extreme Service
• 610 mm (24 in) Extreme Service
• 610 mm (24 in) Super Extreme Service
• 610 mm (24 in) Super Extreme Service
  trapezoidal holes
• 685 mm (27 in) Extreme Service
• 685 mm (27 in) Extreme Service
  trapezoidal holes
• 685 mm (27 in) Super Extreme Service
• 760 mm (30 in) Moderate Service
• Carrier rollers
• Carrier rollers, cold weather
• Undercarriage arrangements
  – Cold weather
  – Steel mill

SPECIAL ARRANGEMENTS
• Arctic
• Desert
• Heavy construction
• Steel mill

BULLDOZER ARRANGEMENTS
• 9SU blade
• 9SU abrasion resistant blade
• 9SU abrasion resistant blade, black
• 9U blade
• 9U abrasion resistant blade
• 9U abrasion resistant blade, black

HYDRAULIC CONTROLS
• Dual tilt

REAR ATTACHMENTS
• Counterweight
• Drawbar rear
• Single shank
• Multi shank
• Multi shank – steel mill
• Pin puller (single shank only)
• CapSure Hammerless Installation
  and Positive Retention System
  – Single shank
  – Multi shank
  – Single shank deep
• Winch

OTHER ATTACHMENTS
• Cellular Product Link
• Fuel lines, heater
• High speed oil change system
• Paint
  – Black paint on hood and top of
    radiator guard
  – Corrosion resistant