

# Cat<sup>®</sup> 297D2 XHP

MULTI TERRAIN LOADER

## **FEATURES:**

The Cat® 297D2 XHP Multi Terrain Loader, with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its standard, suspended undercarriage system provides superior traction, flotation, speed and ride quality with very low ground pressure and minimal ground disturbance across a wide range of underfoot conditions. The 297D2 XHP features the following:

- Industry leading sealed and pressurized cab option provides a cleaner and quieter operating environment with excellent work tool visibility.
- Available high-back, heated, air ride seat with seat mounted adjustable joystick controls makes Cat Multi Terrain Loaders the industry leader in operator comfort.
- High performance power train provides maximum performance and production capability through the Electronic Torque Management system, standard two speed travel and an electronic hand/foot throttle with decel pedal capability.
- XHP hydraulic system provides high flow and high pressure that delivers industry leading hydraulic horsepower to efficiently run even the most power hungry work tools.

- Electronically controlled Cat C3.8 engine provides high horsepower and torque while meeting U.S. EPA Tier 4 Final/EU Stage IV emission standards.
- Cat "Intelligent Leveling" system (ILEV) provides industry leading technology, integration and features such as dual direction self level, work tool return to dig and work tool positioner.
- Standard dual level suspension undercarriage combined with the Speed Sensitive Ride Control system provides better load retention, improved operator comfort and one of the smoothest rides in the industry. The dual suspension undercarriage features oscillating roller wheel assemblies that independently pivot to provide maximum track on the ground.
- Maximize machine capability and control with the standard Advanced Display providing on-screen adjustments for implement response, Hystat<sup>TM</sup> response and creep control. Also features multi-language functionality with customizable layouts, security system and rearview camera.
- Ground level access to all daily service and routine maintenance points helps reduce machine downtime for greater productivity.
- Broad range of performance matched Cat Work Tools make the Cat Multi Terrain Loader the most versatile machine on the job site.

# **Specifications**

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|---|---|---|---|---|---|
|   |   |   |   |   |   |

| Engine Model                       | Cat C3.8 DIT (turbo) |                     |
|------------------------------------|----------------------|---------------------|
| Gross Power SAE J1995              | 82 kW                | 110 hp              |
| Net Power SAE 1349                 | 79 kW                | 106 hp              |
| Net Power ISO 9249                 | 80 kW                | 107 hp              |
| Peak Torque at 1,500 rpm SAE J1995 | 374 N⋅m              | 276 lbf-ft          |
| Displacement                       | 3.8 L                | 232 in <sup>3</sup> |
| Stroke                             | 120 mm               | 4.7 in              |
| Bore                               | 100 mm               | 3.9 in              |
|                                    |                      |                     |

# Weights\*

| Operating Weight | 4952 kg | 10,918 lb |  |
|------------------|---------|-----------|--|
|                  |         |           |  |

## Power Train

| Travel Speed (Forward or Reverse): |           |         |
|------------------------------------|-----------|---------|
| One Speed                          | 9.6 km/h  | 5.9 mph |
| Two Speed                          | 15.1 km/h | 9.4 mph |

<sup>\*</sup>Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, ride control, enclosed cab with glass door, side windows, air conditioning, air ride seat, advanced display, rearview camera, 1,000 CCA battery, dual direction self level, 1981 mm (78 in) dirt bucket, MTL undercarriage and manual quick coupler (unless otherwise noted).

# **Hydraulic System**

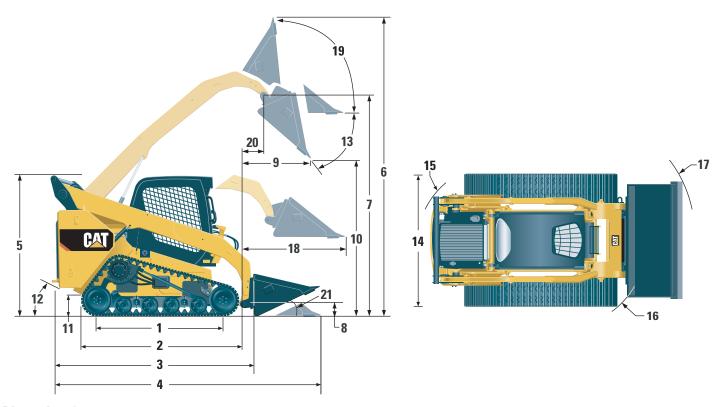
| Hydraulic Flow – XHP:                          |            |            |  |
|--|------------|------------|--|
| Maximum Loader Hydraulic Pressure              | 28 000 kPa | 4,061 psi  |  |
| Maximum Loader Hydraulic Flow†                 | 150 L/min  | 40 gal/min |  |
| Hydraulic Power (calculated)                   | 70 kW      | 94 hp      |  |
| Hydraulic Flow – Standard:                     |            |            |  |
| Loader Hydraulic Pressure                      | 23 000 kPa | 3,335 psi  |  |
| Loader Hydraulic Flow                          | 86 L/min   | 23 gal/min |  |
| Hydraulic Power (calculated)                   | 33 kW      | 44 hp      |  |
| †When equipped with Cat 400 Series work tools. |            |            |  |

# Operating Specifications\*

| Rated Operating Capacity:     |                     |                       |  |
|-------------------------------|---------------------|-----------------------|--|
| 35% Tipping Load              | 1524 kg             | 3,360 lb              |  |
| 50% Tipping Load              | 2177 kg             | 4,800 lb              |  |
| Rated Operating Capacity      |                     |                       |  |
| with Optional Counterweight   | 2295 kg             | 5,060 lb              |  |
| Tipping Load                  | 4354 kg             | 9,600 lb              |  |
| Breakout Force, Tilt Cylinder | 3387 kg             | 7,468 lb              |  |
| Breakout Force, Lift Cylinder | 2754 kg             | 6,072 lb              |  |
| Ground Contact Area           | 1.65 m <sup>2</sup> | 2,561 in <sup>2</sup> |  |
| Ground Pressure               | 29.4 kPa            | 4.3 psi               |  |



# 297D2 XHP Multi Terrain Loader



# Dimensions\*

| 1  | Length of Track on Ground                    | 1807 mm | 71.1 in  |  |
|----|--|---------|----------|--|
| 2  | Overall Length of Track                      | 2286 mm | 90.0 in  |  |
| 3  | Length without Bucket                        | 3201 mm | 126.0 in |  |
| 4  | Length with Bucket on Ground                 | 3942 mm | 155.2 in |  |
| 5  | Height to Top of Cab                         | 2114 mm | 83.2 in  |  |
| 6  | Maximum Overall Height                       | 4076 mm | 160.5 in |  |
| 7  | Bucket Pin Height at Maximum Lift            | 3241 mm | 127.6 in |  |
| 8  | Bucket Pin Height at Carry Position          | 200 mm  | 7.9 in   |  |
| 9  | Reach at Maximum Lift and Dump               | 776 mm  | 30.5 in  |  |
| 10 | Clearance at Maximum Lift and Dump           | 2445 mm | 96.3 in  |  |
| 11 | Ground Clearance                             | 223 mm  | 8.8 in   |  |
| 12 | Departure Angle                              | 30°     |          |  |
| 13 | Maximum Dump Angle                           | 52°     |          |  |
| 14 | Vehicle Width                                | 1984 mm | 78.1 in  |  |
| 15 | Turning Radius from Center – Machine Rear    | 1864 mm | 73.4 in  |  |
| 16 | Turning Radius from Center – Coupler         | 1504 mm | 59.2 in  |  |
| 17 | Turning Radius from Center – Bucket (racked) | 2333 mm | 91.8 in  |  |
| 18 | Maximum Reach with Arms Parallel to Ground   | 1260 mm | 49.6 in  |  |
| 19 | Rack Back Angle at Maximum Height            | 83°     |          |  |
| 20 | Bucket Pin Reach at Maximum Lift             | 387 mm  | 15.2 in  |  |
| 21 | Roll Back Angle                              | 27°     |          |  |

# Cab

ROPS ISO 3471:2008 FOPS ISO 3449:2005 Level I FOPS Level II ISO 3449:2005 Level II

# **Service Refill Capacities**

| <b>_</b>                        |       |          |  |
|---------------------------------|-------|----------|--|
| Cooling System                  | 16 L  | 4.1 gal  |  |
| Diesel Exhaust Fluid (DEF) Tank | 19 L  | 5 gal    |  |
| Engine Crankcase                | 13 L  | 3.5 gal  |  |
| Fuel Tank                       | 122 L | 32.2 gal |  |
| Hydraulic System                | 55 L  | 14.5 gal |  |
| Hydraulic Tank                  | 39 L  | 10.3 gal |  |

# 297D2 XHP Multi Terrain Loader

# **MANDATORY EQUIPMENT**

- Quick Coupler, Mechanical or Electric
- Seat Belt, 50 mm (2 in) or 75 mm (3 in)

### **PERFORMANCE PACKAGE**

 Performance Package H3: XHP Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, Electronic Snubbing (Raise and Lower)

# **COMFORT PACKAGE**

■ Enclosed ROPS with A/C (C3): Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, Air Ride Seat (High Back and Heated) and Door (Glass or Polycarbonate)

# STANDARD EQUIPMENT

### **ELECTRICAL**

- 12 volt Electrical System
- 100 ampere Alternator
- Ignition Key Start/Stop Switch
- Lights: Gauge Backlighting, Two Rear Tail Lights, Two Rear Halogen Working Lights, Two Adjustable Front Halogen Lights, Dome Light
- Backup Alarm
- Heavy Duty Battery, 1,000 CCA, with Battery Disconnect

# **OPERATOR ENVIRONMENT**

- Gauges: Fuel Level, DEF Level, Hour Meter
- Operator Warning System Indicators: Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System
- High Back Cloth Seat with Air Suspension, Heated with Recline and Lumbar Support and Fully Adjustable Seat Mounted Controls
- Fold in Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages
- ROPS Cab, Open, Tilt Up
- FOPS, Level I
- Top, Rear and Side Windows
- Floor Mat
- Interior Rearview Mirror
- 12 volt Electric Socket
- Horn
- Hand (Dial) and Foot Throttle, Electronic with Decel Feature
- Advanced Display: Full Color, 127 mm (5 in) LCD Screen, Advanced Multi-operator Security System, On-screen Adjustments for Implement Response, Hystat Drive Response, and Creep Control; Rearview Camera Included
- Storage Compartment with Netting

### **POWER TRAIN**

- Cat C3.8, Turbo Diesel Engine, Meeting Tier 4 Final/Stage IV Emission Standards
- Air Cleaner, Dual Element, Radial Seal
- S·O·S<sup>SM</sup> Sampling Valve, Hydraulic Oil
- Filters, Cartridge-type, Hydraulic
- Filters, Cartridge-type, Fuel and Water Separator
- Radiator/Hydraulic Oil Cooler (side-by-side)
- Spring Applied, Hydraulically Released, Wet Multi Disc Parking Brakes
- Hydrostatic Transmission, Two Speed Travel
- Suspension Independent Torsion Axles (4) and Oscillating Bogie Wheels
- Rubber Track 457 mm (18 in)
- Speed Sensitive Ride Control

### **OTHER**

- Engine Enclosure, Lockable
- Extended Life Antifreeze, -37° C (-34° F)
- Machine Tie Down Points (6)
- Support, Lift Arm
- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Radiator, Expansion Bottle
- Cat ToughGuard<sup>™</sup> Hose
- Auxiliary, Hydraulics, Continuous Flow
- Heavy Duty, Flat Faced Quick Disconnects with Integrated Pressure Release
- Split D-Ring to Route Work Tool Hoses Along Side of Left Lift Arm
- Electrical Outlet, Beacon
- Belly Pan Cleanout
- Variable Speed Demand Fan

# **OPTIONAL ATTACHMENTS**

- Beacon, Rotating
- Engine Block Heater 120V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Variable Speed Demand Fan with Reversing Functionality
- External Counterweights
- Product Link<sup>TM</sup>, Cellular
- Bluetooth Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)

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