

# PRODUCT SPECIFICATIONS FOR 299D3



## ENGINE

Gross Power - SAE J1995	98 HP
Net Power - SAE 1349	95 HP
Displacement	232 in <sup>3</sup>
Bore	3.9 in
Stroke	4.7 in
Net Power	95 HP
Net Power - ISO 9249	95 HP
Engine Model	Cat C3.8 DIT (turbo)
Peak Torque - 1,500 rpm - SAE J1995	246 ft·lbf

## OPERATING SPECIFICATIONS

Rated Operating Capacities - 35% Tipping Load	3480 lb
Tipping Load	9945 lb
BreakoutForce - Tilt Cylinder	7270 lb
BreakoutForce - Lift Cylinder	6162 lb
Rated Operating Capacity with Optional Counterweight	5240 lb

**Ground Contact Area  
- With 400 mm/15.7 in  
Track** 2184 in<sup>2</sup>

**Ground Pressure-  
With 400 mm/15.7 in  
Track** 5.3 psi

**Note** Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, enclosed cab with glass door, side windows, heater, mechanical suspension seat, advanced display, 850 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

**Rated Operating  
Capacities - 50%  
Tipping Load** 4970 lb

**Ground Contact Area  
- With 450 mm/17.7 in  
Track** 2463 in<sup>2</sup>

**Ground Pressure-  
With 450 mm/17.7 in  
Track** 4.7 psi

## WEIGHTS

**Operating  
Weight** 11464 lb

**Note** Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, enclosed cab with glass door, side windows, heater, mechanical suspension seat, advanced display, 850 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

## DIMENSIONS

**Length - Track on  
Ground** 69.6 in

<b>Overall Length - Track</b>	89.4 in
<b>Height - Top of Cab</b>	83.6 in
<b>Ground Clearance</b>	9.6 in
<b>Departure Angle</b>	33°
<b>Maximum Dump Angle</b>	54°
<b>Vehicle Width (450 mm/17.7 in tracks)</b>	78 in
<b>Turning Radius from Center - Coupler</b>	58.1 in
<b>Rack Back Angle - Maximum Height</b>	81°
<b>Reach - Maximum Lift/Dump</b>	33.6 in
<b>Vehicle Width (400 mm/15.7 in tracks)</b>	76 in
<b>Bucket Pin Reach - Maximum Lift</b>	19.4 in
<b>Bucket Pin Height - Carry Position</b>	7.1 in
<b>Turning Radius from Center - Bucket (racked)</b>	91.1 in
<b>Maximum Reach - With Arms Parallel to Ground</b>	51.9 in

**Length - Without Bucket** 125.5 in

**Length - With Bucket on Ground** 154.7 in

**Clearance at Maximum Lift and Dump** 94.5 in

**Bucket Pin Height - Maximum Lift** 126.3 in

**Maximum Overall Height** 158.7 in

**Roll Back Angle** 25°

**Turning Radius from Center - Machine Rear** 74 in

**Note** Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, enclosed cab with glass door, side windows, heater, mechanical suspension seat, advanced display, 850 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

## HYDRAULIC SYSTEM

**Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure** 4061 psi

**Hydraulic Flow - Standard - Loader Hydraulic Pressure** 3335 psi

**Hydraulic Flow - Standard - Hydraulic Power (Calculated)** 44 HP

**Hydraulic Flow - Standard - Loader Hydraulic Flow** 23 gal/min

**Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow** 32 gal/min

Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)

76 HP

## CAB

ROPS

ISO 3471:2008

FOPS

ISO 3449:2005 Level I

## POWER TRAIN

Travel Speed - Forward or Reverse - Two Speed

8.4 mile/h

Travel Speed - Forward or Reverse - One Speed

5.2 mile/h

## SERVICE REFILL CAPACITIES

Cooling System

4.1 gal (US)

Engine Crankcase

3.5 gal (US)

Fuel Tank

31.7 gal (US)

Hydraulic System

14.5 gal (US)

Hydraulic Tank

10.3 gal (US)

Diesel Exhaust Fluid (DEF) Tank

5 gal (US)

## NOISE LEVEL

**Note (2)**

\*The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

**Inside Cab\***

83 dB(A)

**Note (3)**

\*\*The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

**Note (1)** Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

**Outside Cab\*\*** 104 dB(A)

## AIR CONDITIONING SYSTEM (IF EQUIPPED)

**Air Conditioning** The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.81 kg of refrigerant which has a CO2 equivalent of 1.158 metric tonnes.

## 299D3 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, 850 CCA

### 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, Air Inlet Heater Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System

Adjustable Vinyl Seat

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 and Rear Windows

Floor Mat

Interior Rearview Mirror

12 volt Electric Socket

Horn

Hand (Dial) Throttle, Electronic

Adjustable Joystick Controls

Advanced Display with Rearview Camera: Full Color, 127 mm (5 in) LCD screen; Advanced Multi-operator Security System; On-screen Adjustments for Implement Response, Hystat Response and Creep Control Storage Compartment with Netting

### POWER TRAIN

Cat C3.8, Turbo Diesel Engine, Meeting Tier 4 Final and Stage V Emission Standards  
Air Cleaner, Dual Element, Radial Seal  
S-O-SSM Sampling Valve, Hydraulic Oil  
Filters, Cartridge-type, Hydraulic  
Filters, Canister-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)

## **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™ 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  
Product Link™ PL240, Cellular

## **MANDATORY EQUIPMENT**

Hydraulics, Standard or High Flow XPS  
Quick Coupler, Mechanical or Powered  
High Visibility Seat Belt, 50 mm (2 in) or 75 mm (3 in)  
Steel Imbed Rubber Track – 400 mm (15.7 in) or 450 mm (17.7 in)  
Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers  
PERFORMANCE PACKAGE (must select one of the following):  
– Performance Package H1: Standard Flow (No Self Level)  
– Performance Package H2: Standard Flow, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)  
– Performance Package H3: High Flow XPS, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)  
COMFORT PACKAGE (must select one of the following):  
– Open ROPS (C0): Static Seat (No Foot Throttle, Headliner, Heater or Door)  
– Open ROPS (C1): Foot Throttle, Headliner, Cup Holder, and choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) (No Heater or Door)  
– Enclosed ROPS with Heater (C2): Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) and Door (Glass or Polycarbonate)  
– Enclosed ROPS with A/C (C3): C2 + Air Conditioner

# 299D3 OPTIONAL EQUIPMENT

## OPTIONAL EQUIPMENT

External Counterweights

Beacon, Rotating

Engine Block Heater – 120V

Oil, Hydraulic, Cold Operation

Paint, Custom

Heavy Duty Battery, 850 CCA, with Battery Disconnect

Heavy Duty Battery, 1,000 CCA, with Battery Disconnect

Product Link PL641, Cellular

Variable Speed Demand Fan with Reversing Functionality

Speed Sensitive Ride Control

Work Tool Return to Dig and Work Tool Positioner

Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)