

Product Specifications For 299D3



Engine

Gross Power - SAE J1995:2014	73 kW
Net Power - SAE 1349	71 kW
Displacement	3.8 l
Bore	100 mm
Stroke	120 mm
Net Power	71 kW
Net Power - ISO 9249	71 kW
Engine Model	Cat C3.8 DIT (turbo)
Peak Torque - 1,500 rpm - SAE J1995	334 N·m

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	1580 kg
Tipping Load	4520 kg
Breakout Force - Tilt Cylinder	3298 kg
Breakout Force - Lift Cylinder	2795 kg
Rated Operating Capacity with Optional Counterweight	2380 kg

**Ground Contact Area
- With 400 mm/15.7 in
Track** 1.41 m²

**Ground Pressure -
With 400 mm/15.7 in
Track** 36.4 kPa

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** 2255 kg

**Ground Contact Area
- With 450 mm/17.7 in
Track** 1.59 m²

**Ground Pressure -
With 450 mm/17.7 in
Track** 32.1 kPa

Weights

**Operating
Weight** 5200 kg

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).

Service Refill Capacities

Cooling System 16 l

Engine Crankcase	13 l
Fuel Tank	120 l
Hydraulic System	55 l
Hydraulic Tank	39 l
Diesel Exhaust Fluid (DEF) Tank	19 l

Dimensions

Length - Track on Ground	1767 mm
Overall Length - Track	2270 mm
Height - Top of Cab	2125 mm
Ground Clearance	245 mm
Departure Angle	33°
Maximum Dump Angle	54°
Vehicle Width (450 mm/17.7 in tracks)	1981 mm
Turning Radius from Center - Coupler	1476 mm
Rack Back Angle - Maximum Height	81°
Reach - Maximum Lift/Dump	852 mm

Vehicle Width (400 mm/15.7 in tracks) 1931 mm

Bucket Pin Reach - Maximum Lift 493 mm

Bucket Pin Height - Carry Position 180 mm

Turning Radius from Center - Bucket (racked) 2314 mm

Maximum Reach - With Arms Parallel to Ground 1319 mm

Length - Without Bucket 3189 mm

Length - With Bucket on Ground 3931 mm

Clearance at Maximum Lift and Dump 2399 mm

Bucket Pin Height - Maximum Lift 3208 mm

Maximum Overall Height 4032 mm

Roll Back Angle 25°

Turning Radius from Center - Machine Rear 1881 mm

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).

Cab

ROPS

ISO 3471:2008

FOPS

ISO 3449:2005 Level I

Hydraulic System

Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure

28000 kPa

Hydraulic Flow - Standard - Loader Hydraulic Pressure

23000 kPa

Hydraulic Flow - Standard - Hydraulic Power (Calculated)

33 kW

Hydraulic Flow - Standard - Loader Hydraulic Flow

86 L/min

Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow

121 L/min

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

57 kW

Power Train

Travel Speed - Forward or Reverse - Two Speed

13.5 km/h

Travel Speed - Forward or Reverse - One Speed

8.4 km/h

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)