

Product Specifications For 299D3 XE



Engine

Gross Power - SAE J1995	110 hp
Net Power - SAE 1349	106 hp
Displacement	232 in ³
Bore	3.9 in
Stroke	4.7 in
Net Power - ISO 9249	107 hp
Net Power	106 hp
Peak Torque - 1,500 rpm - SAE J1995	276 ft·lbf
Engine Model	Cat C3.8 DIT (turbo)

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	3560 lb
Ground Contact Area	2184 in ²
Ground Pressure	5.4 psi
Tipping Load	10170 lb
Breakout Force - Tilt Cylinder	7270 lb
Breakout Force - Lift Cylinder	6162 lb

Rated Operating Capacity with Optional Counterweight 5360 lb

Ground Pressure - With 450 mm/17.7 in Track 4.8 psi

Note 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, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idlers, no optional counterweights and manual quick coupler (unless otherwise noted).

Rated Operating Capacities - 50% Tipping Load 5085 lb

Ground Contact Area - With 450 mm/17.7 in Track 2463 in²

Weights

Operating Weight 11756 lb

Note 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, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idlers, no optional counterweights and manual quick coupler (unless otherwise noted).

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)
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Hydraulic Tank	10.3 gal (US)
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Diesel Exhaust Fluid (DEF) Tank	5 gal (US)
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Dimensions

Length - Track on Ground	69.6 in
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Overall Length - Track	89.4 in
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Height - Top of Cab	83.6 in
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Ground Clearance	9.6 in
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Departure Angle	33°
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Maximum Dump Angle	54°
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Maximum Overall Height	158.7 in
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Bucket Pin Height - Carry Position	7.1 in
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Turning Radius from Center - Coupler	58.1 in
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Reach - Maximum Lift/Dump	33.6 in
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Length - Without Bucket	125.5 in
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Turning Radius from Center - Machine Rear	74 in
Turning Radius from Center - Bucket (racked)	91.1 in
Bucket Pin Reach - Maximum Lift	19.4 in
Clearance at Maximum Lift and Dump	94.5 in
Rack Back Angle - Maximum Height	81°
Vehicle Width (400 mm/15.7 in tracks)	76 in
Bucket Pin Height - Maximum Lift	126.3 in
Length - With Bucket on Ground	154.7 in
Maximum Reach - With Arms Parallel to Ground	51.9 in
Note	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, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idlers, no optional counterweights and manual quick coupler (unless otherwise noted).
Roll Back Angle	25°

Cab

ROPS

ISO 3471:2008

FOPS

ISO 3449:2005 Level I

Hydraulic System

Standard Flow Mode - Loader Hydraulic Pressure 3335 psi

Note *When equipped with Cat 400 Series work tools.

Standard Flow Mode - Hydraulic Power - Calculated 44 hp

Standard Flow Mode - Loader Hydraulic Flow 23 gal/min

Hydraulic Flow - XE - Hydraulic Power (calculated) 94 hp

Hydraulic Flow - XE - Maximum Loader Hydraulic Flow* 40 gal/min

Hydraulic Flow - XE - Maximum Loader Hydraulic Pressure 4061 psi

Power Train

Travel Speed - Forward or Reverse - One Speed 5.2 mile/h

Travel Speed - Forward or Reverse - Two Speed 8.4 mile/h

Noise Level

Inside Cab* 83 dB(A)

Outside Cab** 104 dB(A)

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.

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.

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 XE 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, Air Inlet Heater 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, Enclosed, Tilt Up

FOPS, Level I

Top, Rear and Side Windows

Headliner, Deluxe

Floor Mat

Interior Rearview Mirror

12 volt Electric Socket

Horn

Hand (Dial) and Foot Throttle, Electronic with Decel Feature

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)
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™ 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
Steel Imbed Rubber Track – 400 mm (15.7 in) with Triple Flange Idlers (front and rear)
Product Link™ PL240, Cellular

MANDATORY EQUIPMENT

Quick Coupler, Mechanical or Powered
High Visibility Seat Belt, 50 mm (2 in) or 75 mm (3 in)
PERFORMANCE PACKAGE:
– Performance Package H3: XE Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and 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)

299D3 XE Optional Equipment

OPTIONAL EQUIPMENT

Beacon, Rotating
Engine Block Heater – 120V

Oil, Hydraulic, Cold Operation

Paint, Custom

Variable Speed Demand Fan with Reversing Functionality

External Counterweights

Product Link PL641, Cellular

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