

Product Specifications For 299D3 XE



Engine

Gross Power - SAE J1995:2014	82 kW
Net Power - SAE 1349	79 kW
Displacement	3.8 l
Bore	100 mm
Stroke	120 mm
Net Power - ISO 9249	80 kW
Net Power	79 kW
Peak Torque - 1,500 rpm - SAE J1995	374 N·m
Engine Model	Cat C3.8 DIT (turbo)

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	1620 kg
Ground Contact Area	1.41 m²
Ground Pressure	37.3 kPa
Tipping Load	4625 kg
Breakout Force - Tilt Cylinder	3298 kg
Breakout Force - Lift Cylinder	2795 kg

Rated Operating Capacity with Optional Counterweight 2431 kg

Ground Pressure - With 450 mm/17.7 in Track 33 kPa

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 2315 kg

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

Weights

Operating Weight 5333 kg

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 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°
Maximum Overall Height	4032 mm
Bucket Pin Height - Carry Position	180 mm
Turning Radius from Center - Coupler	1476 mm
Reach - Maximum Lift/Dump	852 mm
Length - Without Bucket	3189 mm

Turning Radius from Center - Machine Rear	1881 mm
Turning Radius from Center - Bucket (racked)	2314 mm
Bucket Pin Reach - Maximum Lift	493 mm
Clearance at Maximum Lift and Dump	2399 mm
Rack Back Angle - Maximum Height	81°
Vehicle Width (400 mm/15.7 in tracks)	1931 mm
Bucket Pin Height - Maximum Lift	3208 mm
Length - With Bucket on Ground	3931 mm
Maximum Reach - With Arms Parallel to Ground	1319 mm
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 23000 kPa

Note *When equipped with Cat 400 Series work tools.

Standard Flow Mode - Hydraulic Power - Calculated 33 kW

Standard Flow Mode - Loader Hydraulic Flow 86 L/min

Hydraulic Flow - XE - Hydraulic Power (calculated) 70 kW

Hydraulic Flow - XE - Maximum Loader Hydraulic Flow* 150 L/min

Hydraulic Flow - XE - Maximum Loader Hydraulic Pressure 28000 kPa

Power Train

Travel Speed - Forward or Reverse - One Speed 8.4 km/h

Travel Speed - Forward or Reverse - Two Speed 13.5 km/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)