

Product Specifications For 299D3 XE Land Management



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	106 hp
Net Power - ISO 9249	107 hp
Engine Model	Cat C3.8 DIT (turbo)
Peak Torque - 1,500 rpm - SAE J1995	276 ft·lbf

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	4340 lb
Tipping Load	12400 lb
Breakout Force - Tilt Cylinder	7270 lb
Breakout Force - Lift Cylinder	6162 lb
Ground Pressure - With 450 mm/17.7 in Track	5.2 psi

Rated Operating Capacities - 50% Tipping Load	6200 lb
Ground Contact Area - With 400 mm/15.7 in Track	2171 in ²
Ground Contact Area - With 450 mm/17.7 in Track	2443 in ²
Ground Pressure - With 400 mm/15.7 in Track	5.9 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 polycarbonate 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, and manual quick coupler.

Weights

Operating Weight	12764 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 polycarbonate 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, and manual quick coupler.

Dimensions

Length - Track on Ground	69.6 in
Overall Length - Track	89.4 in

Height - Top of Cab	83.6 in
Ground Clearance	9.6 in
Departure Angle	33°
Maximum Dump Angle	54°
Turning Radius from Center - Coupler	58.1 in
Turning Radius from Center - Machine Rear	74 in
Vehicle Width (400 mm/15.7 in tracks)	76 in
Turning Radius from Center - Bucket (racked)	91.1 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 polycarbonate 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, and manual quick coupler.
Length - Without Bucket	125.5 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 (450 mm/17.7 in tracks)	78 in
Maximum Overall Height	158.7 in
Reach - Maximum Lift/Dump	33.6 in
Length - With Bucket on Ground	154.7 in
Maximum Reach - With Arms Parallel to Ground	51.9 in
Bucket Pin Height - Maximum Lift	126.3 in
Bucket Pin Height - Carry Position	7.1 in
Roll Back Angle	25°

Hydraulic System

Standard Flow Mode - Loader Hydraulic Flow	23 gal/min
Standard Flow Mode - Loader Hydraulic Pressure	3335 psi
Standard Flow Mode - Hydraulic Power - Calculated	44 hp

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
Note	*When equipped with Cat 400 Series work tools.

Cab

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

Power Train

Travel Speed - Forward or Reverse - Two Speed	8.3 mile/h
Travel Speed - Forward or Reverse - One Speed	5.5 mile/h

Service Refill Capacities

Cooling System	4.1 gal (US)
Engine Crankcase	3.5 gal (US)
Fuel Tank	58 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)

Outside Cab** 104 dB(A)

Note (1) Sealed and pressurized cab is standard in North America and Europe.

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.

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 Land Management Standard Equipment

ELECTRICAL

12 volt Electrical System

100 ampere Alternator

Ignition Key Start/Stop Switch

Lights: Gauge Backlighting, Two Rear Tail Lights, Two Rear LED Working Lights, Two Adjustable Front LED 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

USB Charging Port

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 U.S. EPA Tier 4 Final and EU 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

Split D-Ring to Route Work Tool Hoses Along Side of Left Lift Arm

Electrical Outlet, Beacon

Belly and Engine Compartment Access Panels for Cleanout

Variable Speed Demand Fan with Reversing Functionality

Steel Embed Rubber Track – 400 mm (15.7 in) Block Tread

Triple Flange Idlers (front and rear)

Product Link™ PL240, Cellular

Fire Extinguisher Mounting Bracket (in-cab)

Screw-to-Connect Auxiliary Hydraulic Couplings (¾ in)

Push-to-Connect Flat Faced Auxiliary Hydraulic Couplings (½ in)

Debris Guarding (external and turbo)

Precleaner for Engine Air Intake

Additional Machine Guarding

Drive-line Guarding

Turbo Guard

Additional Machine Sealing
Fire Suppression System – Ready

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 Polycarbonate Door

299D3 XE Land Management Optional Equipment

OPTIONAL EQUIPMENT

Beacon, Rotating
Engine Block Heater – 120V
Oil, Hydraulic, Cold Operation
Paint, Custom
Product Link PL641, Cellular
Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)
Roof Mounted Auxiliary Hydraulic Cooler
Steel Embed Rubber Track – 450 mm (17.7 in) Block Tread
Steel Embed Rubber Track – 450 mm (17.7 in) BAR Tread
Steel Track – 355 mm (14 in) Sealed and Lubricated Steel Track (SALT) with Triple Grouser Shoes
Fire Suppression System - Fully Installed