PRODUCT SPECIFICATIONS FOR 299D3

ENGINE

Gross Power - SAE J1995	98 HP
Net Power - SAE 1349	95 HP
Displacement	232 in³
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
Breakout Force - Tilt Cylinder	7270 lb
Breakout Force - Lift Cylinder	6162 lb
Rated Operating Capacity with Optional Counterweight	5240 lb

Ground Contact Area - With 400 mm/15.7 in Track	2184 in²
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 in²
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

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°
Vehicle Width (450 mm/17.7 in tracks)	78 in
Turning Radius from Center - Coupler	58.1 in
Rack Back Angle - Maximum Height	81°
Reach - Maximum Lift/Dump	33.6 in
Vehicle Width (400 mm/15.7 in tracks)	76 in
Bucket Pin Reach - Maximum Lift	19.4 in
Bucket Pin Height - Carry Position	7.1 in
Turning Radius from Center - Bucket (racked)	91.1 in
Maximum Reach - With Arms Parallel to Ground	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)