PRODUCT SPECIFICATIONS FOR 279D3

ENGINE

Gross Power - SAE J1995	74.3 HP
Net Power - SAE 1349	72.9 HP
Displacement	203 in^3
Bore	3.7 in
Stroke	4.7 in
Peak Torque - 1,500 rpm - SAE J1995	195 ft·lbf
Net Power	72.9 HP
Note	Net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler/aftertreatment and cooling fan.
Gross Power	74.3 HP
Engine Model	Cat C3.3B DIT (turbo)
Net Power - ISO 9249	73.7 HP

OPERATING SPECIFICATIONS

Rated Operating Capacities - 35% Tipping Load	2220 lb
Tipping Load	6345 lb
Breakout Force - Tilt Cylinder	7285 lb

Rated Operating Capacities - 50% Tipping Load	3170 lb
Ground Contact Area - With 450 mm/17.7 in Track	2272 in²
Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, OROPS, 2036 mm (80 in) low profile bucket, 450 mm (17.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).
Rated Operating Capacity with Optional Counterweight	3390 lb
Ground Pressure - With 450 mm/17.7 in Track	4.4 psi

WEIGHTS

Operating Weight	10095 lb
Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, OROPS, 2036 mm (80 in) low profile bucket, 450 mm (17.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).

DIMENSIONS

Length - Track on Ground	64.2 in
Overall Length - Track	83.8 in
Height - Top of Cab	83.2 in

Ground Clearance	8.9 in
Departure Angle	32°
Maximum Dump Angle	39°
Bucket Pin Height - Carry Position	7.8 in
Turning Radius from Center - Machine Rear	70.7 in
Turning Radius from Center - Coupler	55.5 in
Maximum Overall Height	159.5 in
Maximum Reach - With Arms Parallel to Ground	54 in
Turning Radius from Center - Bucket	88.8 in
Bucket Pin Height - Maximum Lift	124.9 in
Length - With Bucket on Ground	146.2 in
Length - Without Bucket	117.9 in
Reach - Maximum Lift/Dump	22.6 in

Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, OROPS, 2036 mm (80 in) low profile bucket, 450 mm (17.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).
Clearance at Maximum Lift and Dump	97.8 in
Vehicle Width (450 mm/17.7 in tracks)	78 in
Rack Back Angle - Maximum Height	84°

HYDRAULIC SYSTEM

Hydraulic Flow - Standard - Loader Hydraulic Pressure	3335 psi
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	32 gal/min
Hydraulic Flow - Standard - Loader Hydraulic Flow	23 psi
Hydraulic Flow - Standard - Hydraulic Power (Calculated)	44 HP
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure	4061 HP
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	8.3 mile/h
Travel Speed - Forward or Reverse - One Speed	4.5 mile/h

SERVICE REFILL CAPACITIES

Hydraulic System	13.7 gal (US)
Hydraulic Tank	10.3 gal (US)
Fuel Tank	27.7 gal (US)
Engine Crankcase	3 gal (US)
Cooling System	3.7 gal (US)

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 1 kg of refrigerant which has a CO2 equivalent of 1.430 metric tonnes.

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.
Outside Cab* **	103 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.
Inside Cab**	83 dB(A)
Note (1)	Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

279D3 STANDARD EQUIPMENT

ELECTRICAL

12 volt Electrical System
80 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

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
Gauges: Fuel Level, Hour Meter
Operator Warning System Indicators: Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug 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
Anti-theft Security System with 6-button Keypad
Storage Compartment with Netting

POWER TRAIN

Cat C3.3B, 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™ PL243, 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 – 450 mm (17.7 in)
Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers
PERFORMANCE PACKAGES:
– Performance Package H1: Standard Flow Hydraulics (No Self Level)
– Performance Package H2: Standard Flow Hydraulics, 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 PACKAGES:
– 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

279D3 OPTIONAL EQUIPMENT

OPTIONAL EQUIPMENT

Hand-Foot Style Controls
External Counterweights
Beacon, Rotating
Engine Block Heater – 120V
Oil, Hydraulic, Cold Operation
Paint, Custom
Heavy Duty Battery, 1,000 CCA
Product Link PL641, Cellular
Speed Sensitive Ride Control
Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)