

Product Specifications For D8



Engine

Engine Model	Cat® C15
Power - Net	271 kW
Net Power - ISO 9249/SAE J1349	271 kW
Net Power - ISO 9249 (DIN)	368 mhp
Build Number	22A
Emissions	Brazil MAR-1, and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA
Note (1)	Net power at 2,050 rpm. Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator. Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to: 20% biodiesel FAME (fatty acid methyl ester) * or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. * For use of blends higher than 20% biodiesel, consult your Cat dealer.

Weights

Operating Weight	39000 kg
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Transmission

Powertrain	Fully-automatic 4-speed transmission with lock-up clutch (LUC) torque divider
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Service Refill Capacities

Fuel Tank	624 l
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Standard SU

Operating Weight	39000 kg
Ground Pressure	88.5 kPa
Width of Standard Shoe	610 mm
Blade	Semi-Universal
Blade Capacity	10.3 m³

LGP

Operating Weight	37585 kg
Ground Pressure	53.9 kPa
Width of Standard Shoe	965 mm
Blade	LGP Semi-Universal
Blade Capacity	9.9 m³

Desert/High Abrasion

Operating Weight	39250 kg
Ground Pressure	89.1 kPa
Width of Standard Shoe	610 mm
Blade	Semi-Universal
Blade Capacity	10.3 m³

Sustainability

Recyclability	98%
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Air Conditioning System

Air Conditioning

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.36 kg (3 lb) of refrigerant which has a CO2 equivalent of 1.95 metric tonnes (2.14 tons).

D8 Standard Equipment

Note

Standard and optional equipment may vary. Consult your Cat® dealer for details.

Powertrain

Cat® C15 engine

Fully-automatic 4-speed transmission with lock-up clutch (LUC) torque divider

Aftercooler, air-to-air (ATAAC)

Coolant, extended life

Differential steering

Engine air filter with electronic service indicator

Engine air precleaner with dust ejection

Engine idle shutdown

Final drives, double reduction – Standard or LGP

Fuel water separator

Fuel priming pump, electric

Fan, hydraulic demand

Fuel lines – B100 compliant (required for Indonesia)

Muffler with mitered stack

Radiator, aluminum bar plate with debris resistant cores

High performance single plane cooling system

Cat Technology

Cat Slope Indicate

Compatibility with radios and base stations from Trimble, Topcon, and Leica

Capability to install 3D grade systems from Trimble, Topcon, and Leica

Remote Flash/Troubleshoot

Machine security - passcode

Remote Control Ready

Operator Environment

Standard cab with integrated rollover protective structure (ROPS) and falling objects protective structure (FOPS), laminated safety glass, sliding windows, basic display/non-ARO, standard seat

203 mm (8 in) gauge cluster display

Cloth seat with mechanical adjustable lumbar support

Electrohydraulic implement and steering controls

Decelerator pedal

Fresh air filter

Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.

Rearview mirror

Retractable 76 mm (3 in) seat belt

Cup holders

Dash foot pads

Lunchbox storage

Wipers

Operator presence switch

Undercarriage

Standard or Low Ground Pressure (LGP) undercarriage

Heavy Duty with Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes

Suspension-type undercarriage

Carrier rollers

Hydraulic track adjusters

Lifetime lubricated track and roller

Moderate service track shoes

Track guide

Sprocket rim segments, replaceable

8-roller tubular track roller frame (carrier roller ready)

Two-piece master links

Push Arms

Standard

Hydraulics

Load sensing hydraulics

Independent steering and implement pumps

Dozer tilt hydraulics – single tilt

Guarded blade hydraulic hoses

Electronically enabled quick drop valve

Rear hydraulics ripper and winch ready

Electrical

Standard lights – 4 LED light package

Backup alarm

Converter: 15 Amp, 12V outlets

Forward warning horn

Batteries, Starters, Alternators, And Coolant

95 Amp alternator

24 Volt starter

Engine coolant, -37° C (-35° F)

Four maintenance free 12-volt batteries (900 cca) (24-volt system)

Service And Maintenance

Centralized, remote mounted pressure taps

Ecology drains

Extended service intervals (500 hours engine, 1,000-hour powertrain)

Ground level service center (remote electrical disconnect, secondary shutdown switch)

Heavy duty perforated radiator doors, louvered and hinged

Removable engine enclosures, perforated and hinged

Scheduled Oil Sampling (S·O·SSM) ports

Vandalism protection for fluid compartments and battery box

Guarding And Screens

Bottom guards – standard

D8 Optional Equipment

Note

Standard and optional equipment may vary. Consult your Cat® dealer for details.

Powertrain

Desert package with unique engine, precleaner, bottom guards, and seals for application

Engine air precleaner desert configuration

Engine air precleaner with screen and dust ejector

Engine with thermal shield

Fan, auto reversing

High capacity fuel tank – includes B100 compliant fuel lines

Oil change system, high speed

Muffler with thermal shield

Sound suppression

Starting aid, automatic ether

Starting aid, jacket water heater (110V or 220V)

Cat Technology

Cat Assist with ARO package

Cat Grade 3D Ready with Assist package (hardware only)

Cat Grade 3D with Assist package

Third party Grade Control ready cab

Product Link™ – cellular or dual mode

Cat Track Wear Sensor (standard in countries where certified)

Grade Connectivity

Grade Corrections Radio

Machine security – Bluetooth

Cat Command for Dozing

Operator Environment

Premium cab with integrated ROPS and FOPS, laminated safety glass, sliding windows, adjustable armrests. Cab is technology- and remote control-ready.

High debris cab with integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side window for improved sealing, powered precleaner with Cat Advanced Cabin Filtration for improved performance and filter life. Cab is technology- and remote control-ready.

Full-color 254 mm (10 in) liquid crystal touchscreen display

High definition rearview camera with backup lines

In-display key machine features

Operator ID/Operator ID with Security

Deluxe leather heated/ventilated seat with electronic adjustable lumbar support

Armrests adjustable fore-aft and vertically

Joystick control – ARO

Powered fresh air filter precleaner

Communication radio ready

Floor plate and pedals for shorter operators

Entertainment radio with Bluetooth and microphone

USB and AUX ports

Emergency hammer

Window shades

Undercarriage

Heavy Duty Extended Life (HDXL) with PPR undercarriage – 44 section track, sealed and lubricated, single grouser shoes

Waste undercarriage

Extreme service track shoes

Blades

Semi-Universal (SU)

Universal (U)

Waste/Landfill

Angle (A)

Rock Guard/Wear Plate

Push Plate

FirstCut™ cutting edges (SU blades)

Push Arms

Extreme

Hydraulics

Dozer tilt hydraulics – dual tilt

Electrical

Upgraded lights – 6 LED light package

Premium lights – 12 LED light package
Access/egress lighting with shutdown timer
Beacon warning light

Batteries, Starters, Alternators, And Coolant

150 Amp alternator
150 Amp ducted alternator
Arctic engine coolant, -51° C (-60° F)

Service And Maintenance

30-minute cab removal
Ground level service center (hour meter, jump start)
Fast fuel fill
High-speed oil change
Heavy duty radiator doors for waste
Quick access cab floor
Under hood work light
Shovel holder

Attachments

Multi-shank ripper with CapSure™ ripper tips and shank protector
Single shank ripper with CapSure ripper tip and shank protector
Pin puller (single shank)
Rear striker box with striker bar
Rear striker bar
Rear counterweight
Drawbar
Winch

Guarding And Screens

Bottom guards – heavy duty, powered, sealed, desert
Cab rear screen – fixed or hinged
Cab side screens – hinged
Fuel tank guards
HVAC guard
Light guards
Striker bars, front, suspended
Sweeps package