Product Specifications For AD30



Engine

Engine Model	Cat® C15
Engine Power - Tier 3 Engine - ISO 14396:2002	401 hp
Engine Power - VR Engine - ISO 14396:2002	401 hp
Bore	5.4 in
Stroke	6.8 in
Displacement	928 in ³
Note (1)	Power ratings apply at a rated speed of 1,800 rpm when tested under the reference conditions for the specified standard.
Note (2)	All rating conditions are based on ISO/TR14396:2002, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (0.295 in Hg), and 25° C (77° F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15° C (7.05-7.09 lb/gal @ 59° F) and fuel inlet temperature 40° C (104° F).
Note (3)	Engine derate will commence at an altitude of 2743 m (8,999 ft).
Note (4)	Optional Ventilation Reduction package available. Optional engine with emissions equivalent to Tier 3 and EU Stage IIIA is also available.
Note (5)	Optional engine with emissions equivalent to U.S. EPA Tier 3 and EU stage IIIA is also available.

Operating Specifications

Gross Machine Mass		132300 lb
Body Capacities		11.3-17.5 m³ (14.8-22.9 yd³)
Weights		
Empty		63647 lb
Empty - Front Axle		42944 lb
Empty - Rear Axle		20704 lb
Loaded		132277 lb
Loaded - Front Axle		58451 lb
Loaded - Rear Axle		73826 lb
Weight Distribution	1	
Empty - Front Axle		67.50%
Empty - Rear Axle		32.50%
Loaded - Front Axle		44.20%
Loaded - Rear Axle		55.80%
Transmission		
Forward - 1	3.9 mile/h	
Forward - 2	7 mile/h	
Forward - 3	12.9 mile/h	
Forward - 4	22.8 mile/h	
Reverse - 1	4.4 mile/h	

Note	Maximum travel speeds with standard 26.5 × R25 tires.

Final Drives

Differential Ratio	3.38:1
Final Drive Ratio	4.76:1
Total Reduction Ratio	16.13:1
Note	Fully floating axles.

Body Hoist

Raise	10.5 s
Lower	11.2 s
Total Cycle Time	21.7 s

Body Capacities

Body 1	14.8 yd³
Body 2 - Standard Body	18.8 yd³
Body 3	22.9 yd³
Wide Body	21.9 yd³
Ejector Body (1)	19.9 yd³
Ejector Body (2)	21.9 yd³
Note	Heaped SAE 2:1.

Turning Dimensions

Outside Clearance Radius	337.4 in	

Inner Clearance Radius	198 in
Articulation Angle	42.5 °
Frame Oscillation	10 Degrees

Service Refill Capacities

Engine Crankcase - With Filter	9 gal (US)
Transmission	18 gal (US)
Hydraulic Tank	38 gal (US)
Cooling System	20 gal (US)
Front Differential and Final Drives	15 gal (US)
Rear Differential and Final Drives	15 gal (US)
Fuel Tank	108 gal (US)

Tires

Tire Size	26.5 × R25

Standards

Standards	ROPS/FOPS Certified Cab

AD30 Standard Equipment

TIRES, RIMS, AND WHEELS

Tires must be selected from the Mandatory Attachments section. Choose from below:

- Tire, 26.5 × 25 VSNT Bridgestone
- Tire, 26.5 × 25 VSDL Bridgestone

Rims (set of four) – five pieces, tubeless

ELECTRICAL

12V power supply in cab Alarm, reversing Alternator, 95 amp

Battery disconnect switch, ground level

Circuit breaker, 80-amp

Corrosive protection spray

Diagnostic connector

Disconnect switch, two post, ground level

Lights:

- Headlights with dimmer switch
- Brake and tail lights
- Reversing lights, automatic when reverse gear selected
- Work light, rear, cab mounted

Low maintenance batteries

Receptacle group, auxiliary start

Shutdown switch, ground level

Starting and charging system

OPERATOR ENVIRONMENT

Cab, ROPS/FOPS certified

Open operator station ROPS/FOPS structure

Caterpillar Electronic Monitoring System (CEMS), dash instrument panels

Operator Presence System

Automatic Brake Application (ABA)

Electric horns

Gauges:

- Engine coolant temperature
- Transmission coolant temperature
- Hydraulic oil temperature
- Fuel level
- Speedometer
- Tachometer

Indicator lights:

- Alert warning light
- Body up position warning
- High beam
- Residual brake pressure warning
- Retarder application
- Turn signal

Low hydraulic level warning

Mirrors, rear view

Seat, suspension operator seat with retractable seat belt

Seat, trainer/passenger with seat belt

Steering wheel, tilt/telescopic

POWER TRAIN

Axle, arrangement:

- Standard width, front - rear

Brake retarder control, automatic

Brakes:

- All wheel disc
- Oil cooled
- Multiple-disc (SAFR™)

Control throttle shifting

Electric fuel priming pump

Engine:

- Cat C15 six cylinder diesel engine
- Air-to-air aftercooler (ATAAC)

Exhaust, turbo compartment shielding

Four wheel drive

Gear blockout with tray up, programmable

Ground speed limiting, programmable

Long life coolant

Parking brakes, four wheels

Precleaner, engine air intake

Radiator, cross flow; Radiator cap manual release

Secondary steering system

Transmission, automatic planetary power shift (4F/1R)

Torque converter with automatic lockup

OTHER STANDARD EQUIPMENT

Adapters, oil sample

Alarm, tray up

Body dump and ejector:

- Dump, (14.4 m3/18.8 yd3)

Cap, radiator, manual release

Catalytic exhaust purifier/muffler group

Centralized lubrication points

Fenders:

- Front, rear flaps

Firewall

Fuel system manual shut off tap

Front rubber bumpers

Handholds (access on/off top deck)

Handrails

Hitch, articulated and oscillated

Lifting lugs, frame

Lubrication system:

- Centralized, dump body

Operation and Maintenance Manual – English and other applicable local languages to select Scheduled Oil Sampling (S·O·SSM) port:

- Coolant
- Engine oil
- Hydraulic oil
- Transmission oil

Spill quard, front, for body

Swing out radiator grill

AD30 Optional Equipment

POWER TRAIN

Axle, arrangement:

- Wide body, front - rear

Brake pressure gauges

Engine options:

- Engine, Ventilation Reduction (VR)
- Equivalent to Tier 3

After treatment options (for use with VR engine only) Diesel Particulate Filter (DPF) (flow through) filter Fast Fill System:

- Coolant
- Engine oil
- Fuel (dual tanks)
- Hydraulic oil
- Transmission oil

Park Brake Switch Engagement - Push to Apply/Pull to Apply

ELECTRICAL

Battery shutdown:

- Ground Level Isolation, In Cab Isolation Switch
- Ground Level Isolation, Engine Shutdown Switch
- Ground Level Isolation, In Cab Isolation, Engine Shutdown Switch

Lights:

- Headlights with dimmer switch, LED
- Reversing lights, automatic when reverse gear selected, LED
- Work light, rear, cab mounted, LED

OPERATOR ENVIRONMENT

Operator's station ROPS/FOPS enclosed:

- Air conditioning
- Cab pressurizer and filter
- Dome light
- Heater
- Radio ready compartment for radio and speakers
- Sun visor
- Window, sliding cab door

Seat

- Suspension seat Cat Comfort TLV2, vinyl
- Suspension seat tee, mechanical

Seat cover:

- Tee and Cat Comfort TLV2
- Seat cover, companion

TECHNOLOGY

Vital Information Management System (VIMS) Gen 3 Payload:

- Truck Payload Measurement System (TPMS)

TIRES, RIMS, AND WHEELS

Rim identification numbering Spare rim, tubeless

OTHER OPTIONAL EQUIPMENT

Body dump and ejector:

- Dump, (11.3 m3/14.8 yd3)
- Dump, (16.8 m3/21.9 yd3) (wide body configuration)
- Dump, (17.5 m3/22.9 yd3)
- Ejector, (15.2 m3/19.9 yd3)
- Ejector, (16.8 m3/21.9 yd3)

Body liners, impact and/or wear

Camera - color rear facing

Cover, anti vandalism for shipping

Fenders:

- Wide body, front, rear flaps

Fire suppression system:

- Foam, water based

Fluids:

- Arctic fuel
- Arctic coolant

Lubrication system:

- Automatic, dump or ejector body
- Centralized, ejector body

Mine transfer

Reflective tapes

Service tools