

PRODUCT SPECIFICATIONS FOR 793D



WEIGHTS - APPROXIMATE

Nominal Rated Payload 232 t

Rated Gross Machine Weight 383848 kg

Chassis Weight 121984 kg

Body Weight 30700 kg

Note (1) Consult your tire manufacturer for maximum tire load

Note (2) Chassis weight with full fuel and fluids, standard & mandatory attachments, hoist, body mounting group, rims, and tires.

ENGINE

Gross Power - SAE J1995 1801 kW

Engine Model Cat® 3516B HD

Net Power - SAE J1349 1743 kW

Rated Speed 1750 r/min

Emissions Rating U.S. EPA Tier 1

Bore 170 mm

Stroke 215 mm

Displacement 78 l

Note (1) 3516E engine currently offered as optional attachment upgrade.

Note (2)

Net power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, and alternator.

BRAKING SYSTEM

Service Brakes

Four-Corner, Wet Disc, Oil Cooled, Hydraulically Actuated

Front Wet Disc Brake Surface Area

89 817 cm²

Rear - Wet Disc Brake Surface Area

34 500 cm²

Standards

Service and Secondary: ISO 3450:2011

Parking Brake

Four-corner, Multi-disc, Spring Applied, Hydraulically Released

Load Brake

Rear service brakes

WEIGHT DISTRIBUTIONS - APPROXIMATE

Front Axle - Empty

46 %

Rear Axle - Empty

54 %

Front Axle - Loaded

33 %

Rear Axle - Loaded

67 %

Note

Weight distributions optimized with Cat body.

TIRES

Standard Tires

40.00 R57

Rims

29" x 57"

Note (1)

Quick Change Rims (QCR) and Extended Life Wheel Station (XLWS) optional.

Note (2)

Caterpillar recommends the customer evaluate all job conditions and consult tire manufacturer for proper tire selection and TKPH (TMPH) capabilities.

BODY HOISTS

| | |
|-------------------------------------|--|
| Type | Twin, two-stage hydraulic cylinders with snubbing valve. |
| Pump Flow - High Idle | 846 l/min |
| Relief Valve Setting - Raise | 20370 kPa |
| Body Raise Time - High Idle | 20.25 s |
| Body Lower Time - Float | 19.26 s |
| Body Power Down - High Idle | 17.51 s |

SUSPENSION

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| Type | Self-contained nitrogen/oil cylinders, pin-to-pin mounting, top & bottom double shear clevis attachments |
| Effective Cylinder Stroke - Front | 130.5 mm |
| Effective Cylinder Stroke - Rear | 105.5 mm |
| Rear axle - Oscillation | +/- 4.9° |

CAB

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|---------------------------|--|
| Air Conditioning | (HFC - 134A refrigerant) 35,100 Btu/h |
| Heater / Defroster | 43930 Btu/h |
| ROPS Standards (1) | The operator sound pressure level, 76 dB(A), is measured according to work cycle procedures specified in ANSI/SAE J1166 MAY90. |
| ROPS Standards (2) | ROPS (Rollover Protective Structure) meets ISO 3471:2008 and ISO 13459:2012 |
| FOPS Standards | FOPS (Falling Objects Protective Structure) meets ISO 3449:2005 Level II FOPS criteria and ISO13459:2012 Level II. |

STEERING

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| Steer Angle | 36 ° |
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| Turning Diameter - Front | 28.42 m |
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| Steering Standards | ISO 5010:2007 |
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DIMENSIONS

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| Height - Top of ROPS | 5584 mm |
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| Overall Length | 13589 mm |
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| Wheel Base | 5905 mm |
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| Rear Axle - Tail | 3997 mm |
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| Ground Clearance | 1005 mm |
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| Dump Clearance | 1631 mm |
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| Loading Height - Empty | 6189 mm |
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| Overall Height - Body Raised | 13714 mm |
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| Centerline Front Tire Width | 5610 mm |
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| Engine Guard Clearance | 1294 mm |
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| Overall Canopy Width | 8592 mm |
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| Outside Body Width | 8007 mm |
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| Inside Body Width | 7300 mm |
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| Front Canopy Height | 7375 mm |
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| Rear Axle - Clearance | 1128 mm |
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| Centerline of Rear Dual Tire Width | 4963 mm |
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| Overall Tire Width | 7605 mm |
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| Overall Body Length | 12862 mm |
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| Inside Body Length | 7712 mm |
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| Inside Body Depth - Maximum | 2330 mm |
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| Operating Width | 7680 mm |
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TRANSMISSION

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| Forward - 1 | 11.8 km/h |
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| Forward - 2 | 15.9 km/h |
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| Forward - 3 | 21.5 km/h |
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| Forward - 4 | 29 km/h |
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| Forward - 5 | 39.4 km/h |
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| Forward - 6 | 54.3 km/h |
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| Reverse | 10.9 km/h |
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| Top Speed - Loaded | 54.3 km/h |
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FINAL DRIVES

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| Type | Double reduction, planetary with full floating axles. |
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| Differential Ratio | 1:08:01 |
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| Planetary Ratio | 16:01 |
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| Total Reduction Ratio | 28.8:1 |
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SERVICE REFILL CAPACITIES

| | |
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| Fuel Tank - Standard | 4354 l |
| Fuel Tank - Optional | 4922 l |
| Cooling System | 973 l |
| Crankcase | 265 l |
| Front Wheels - Each | 22 l |
| Final Drive - Each | 114 l |
| Differentials | 832 l |
| Steering Tank | 227 l |
| Steering System - Including Tank | 341 l |
| Torque Converter - Transmission Sump | 102 l |
| Brake/Hoist Hydraulic Tank | 769 l |
| Brake Hoist System - Includes Tank | 1375 l |
| Torque Converter Sump | 102 l |
| Torque Converter/Transmission System - Including Sump | 189 l |

CAPACITY - HP BODY - 100% FILL FACTOR

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| Struck | 112.6-151 m ³ / 147-197.5 yd ³ |
| Heaped (SAE 2:1)* | 162-191 m ³ / 212-250 yd ³ |
| Note (1) | Consult your local Cat dealer for body recommendations. |

793D STANDARD EQUIPMENT

BRAKE SYSTEM

Oil-cooled, Multiple-disc, Front and Rear
Parking
Secondary, Emergency

CAB, ROPS

Air Cleaner Service Indicator
Air Conditioner
Ashtray
Cigarette Lighter
Coat Hook
Diagnostic Connector
Electric Engine Control Fault Indicator
Electric Window (Operator Only)
Entertainment Radio Ready
Glass, Tinted
Heater/defroster: 11 070 kCal (43,930 Btu)
Horn
Insulated and Sound Suppressed
Dome Courtesy Light
Mirrors, Right and Left
Quad-Gauge Panel
Seat, Air Suspension w/3-piece compartment
Seat, Passenger, Non-suspension
Seat Belts, 75 mm (3 in) wide retractable
Speedometer
Steering, Automatic Supplemental
Steering Wheel, Tilt, Padded, Telescopic
Storage Compartment
Sun Visor
Tachometer
Transmission Gear Indicator
VIMS Keypad
VIMS Message Center with Universal Gauge
Windshield Wiper and Washer

ENGINE - CATERPILLAR 3516B HD EUI DIESEL ENGINE

Air Cleaner with Precleaner (2)
Elevated Low Idle Control
Ether Starting Aid, Automatic
Multi-Point Oil Pressure Sensing
Turbocharger (4)/Aftercooler

GROUND LEVEL

Battery Disconnect

Engine Shutdown
VIMS Dataports (2)

LIGHTING SYSTEM

Back-up Lights, Halogen
Direction Signals and Hazard Warning (Rear Halogen)
Headlights, Halogen, With Dimmer
LH Ladder Light and Service Deck Lights
Stop and Tail Lights (LED)
Under-hood Light

RESERVOIRS (SEPARATE)

Brake/Hoist
Steering/Fan
Transmission/Converter

TRANSMISSION

6-speed, Automatic Power Shift
Body-up Shift Inhibitor
Controlled Throttle Shifting
Directional Shift Management
Electronic Control and Downshift Inhibitor
Lock-up Torque Converter
Neutral Coast Inhibitor
Neutral Start Switch, Reverse Shift Inhibitor
Programmable Top Gear
Reverse Neutralizer during Dumping