



# Cat<sup>®</sup> 313D2 L

## Hydraulic Excavator

### 2017

***Unmatched versatility, improved controllability, easy operation, and a comfortable, redesigned operator station help make the 313D2 L an industry-leading performer.***

### **Performance**

- The powerful, efficient Cat<sup>®</sup> C4.4 mechanical engine offers up to 14% lower fuel consumption than the model it replaces with no loss of lifting or digging force.
- The low-pressure fuel system with an electrically controlled governor allows the engine to be more robust with quality fuel.
- Boom and stick regeneration valves help reduce fuel consumption.
- Highly efficient hydraulic pumps deliver optimal power to suit general construction applications.
- The machine's China Nonroad Stage III and U.S. EPA Tier 3/ EU Stage IIIA equivalent engine can run on biodiesel up to B20 that meets ASTM 6751 standards.

### **Versatility**

- Site prep and finishing work are quick and easy with a wide range of Cat work tools.
- Utility work is fast and flawless with a Cat bucket and compactor.
- See the whole money-making attachment line for your machine at [www.cat.com/attachments](http://www.cat.com/attachments).

### **Safety**

- The hydraulic activation lever safely locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions and during routine checks.
- A full-length firewall separates the pump compartment from the engine.

### **Durability**

- The modified X-frame structure provides a long service life.
- Robotically welded booms and sticks with internal baffle plates are standard.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

### **Ease of Operation**

- The cab is ergonomically designed cab with easy-to-reach controls.
- Multiple seat and joystick adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- Low-effort joystick controls reduce operator fatigue.
- The automatic climate control system with 10 vents maximizes comfort.

### **Serviceability**

- Most service locations can be accessed at ground level.
- The fuel filtration system has two filters, both located in the radiator compartment, rather than three filters as in the 312D, lowering O&O costs and simplifying service.
- Remote-mounted filters reduce the time to service the machine.
- Pressure taps and S-O-S<sup>SM</sup> ports help maximize uptime.

### **Technology**

- Cat Connect technology solutions increase production and minimize operating costs.
- Link technologies wirelessly connect you to your job site providing essential business information (VisionLink<sup>®</sup>, Product Link<sup>™</sup>).



# Cat® 313D2 L Hydraulic Excavator

## Engine

Engine Model	C4.4	
Net Power – ISO 14396	75 kW	100 hp
Net Power – SAE J1349/ISO 9249	68 kW	91 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in <sup>3</sup>
<ul style="list-style-type: none"> <li>• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.</li> <li>• No engine derating required below 2300 m (7,545 ft) altitude.</li> <li>• Cat C4.4 engine meets U.S. EPA Tier 3/EU Stage IIIA equivalent and China Nonroad Stage III emission standards.</li> </ul>		

## Weights

Operating Weight		
Operating Weight*	13 700 kg	30,200 lb
*4.65 m (15'3") Reach Boom, R3.0 (9'10") Stick, 600 mm (24") Triple Grouser Track Shoes, GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) Bucket (500 kg/1,100 lb)		

## Swing Mechanism

Swing Speed	12.2 rpm	
Swing Torque	30.9 kN·m	22,825 lbf·ft

## Drive

Maximum Travel Speed	5.6 km/h	3.5 mph
Maximum Drawbar Pull	114 kN	25,630 lb

## Hydraulic System

Main System – Maximum Flow (Total)	254 L/min	67 gal
Swing System – Maximum Flow	127 L/min	34 gal
Maximum Pressure – Equipment	30 500 kPa	4,420 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	23 000 kPa	3,340 psi
Pilot System – Maximum Flow	21.9 L/min	1,340 in <sup>3</sup> /min
Pilot System – Maximum Pressure	4120 kPa	600 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	100 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

## Dimensions

Boom Option	Reach Boom 4.65 m (15'3")	
Stick Option	R3.0 (9'10")	
Shipping Height*	2830 mm	9'3"
Shipping Height with Guard Rail	2830 mm	9'3"
Shipping Length		
Long Undercarriage	7620 mm	25'0"
Tail Swing Radius	2140 mm	7'0"
Length to Center of Rollers	3040 mm	10'0"
Track Length	3750 mm	12'4"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width		
600 mm (24") Shoes	2590 mm	8'6"
Cab Height	2760 mm	9'1"
Cab Height with Top Guard	2900 mm	9'6"
Counterweight Clearance**	900 mm	2'11"
*Including shoe lug height.		
**Without shoe lug height.		

## Working Ranges

Boom Option	Reach Boom 4.65 m (15'3")	
Stick Option	R3.0 (9'10")	
Maximum Digging Depth	6040 mm	19'10"
Maximum Reach at Ground Level	8630 mm	28'4"
Maximum Cutting Height	8710 mm	28'7"
Maximum Loading Height	6330 mm	20'9"
Minimum Loading Height	1530 mm	5'0"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5860 mm	19'3"
Maximum Vertical Wall Digging Depth	4990 mm	16'4"

**NOTE:** All dimensions and working ranges based on 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>) capacity GD bucket.

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