



# Cat<sup>®</sup> 313F L

## Hydraulic Excavator

### 2017

*The Cat<sup>®</sup> 313F L is a perfect choice for customers who value versatility, reliability, durability, and maximum efficiency.*

#### Performance

- The C4.4 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV engine is powerful and efficient, and it can run on biodiesel up to B20.
- Advanced control automatically manages pump and engine speed for maximum efficiency.
- Two power modes, high power and eco mode, help you actively manage fuel consumption.
- Engine idle shutdown saves fuel, reduces emissions, and extends service intervals.

#### 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.
- A coupler lets you swap between attachments in seconds without leaving the cab.
- See the whole attachment line for your machine at [www.cat.com/attachments](http://www.cat.com/attachments).

#### Comfort

- The roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- Automatic climate control helps maintain consistent cab temperature.
- Joystick consoles and armrests are adjustable.
- Seats are adjustable and feature air suspension and an optional heater in Europe, Australia, New Zealand and Pacific Islands.
- The LCD monitor is easy to navigate and programmable in 42 languages.

#### Serviceability

- Many routine service and maintenance points can be accessed from ground level reducing the time taken to check and service your machine.
- Wide service doors make for easy access.
- Filters are grouped to reduce service time.
- The cooling package is designed to prevent plugging, make blowing off debris easy.

#### Technology

- Cat Connect technology improves job site efficiency.
- Optional Cat Grade Control helps you create a level base and precise slope with ease.
- Product Link™/VisionLink<sup>®</sup> connects owners to the machine, providing access to location, hours, fuel consumption, idle time, events, and diagnostic codes.

#### Durability

- The large swing bearing is secured with elongated bolts to help handle the most swing-intensive work.
- Robot welded, Caterpillar designed boom and sticks are built for long service.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

#### Safety

- The hydraulic activation lever locks out all hydraulic functions.
- Handrails, anti-skid plating, and countersunk bolts reduce slipping and tripping.
- A ground-level fuel cutoff switch shuts down the engine in case of emergency.
- Standard rearview camera and mirrors enhance visibility.
- The side-view camera offered in Europe enhances visibility on the boom side of the machine to help make operators more effective and efficient.



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## Engine

Engine Model	C4.4 ACERT	
Gross Power – SAE J1995	74 kW	100 hp/101 PS
Net Power – SAE J1349	69 kW	92 hp/93 PS
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in <sup>3</sup>

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.287 metric tonnes.

## Hydraulic System

Main System – Maximum Flow (total)	256 L/min	67 gal/min
Maximum Pressure – Equipment	30 500 kPa	4,424 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 000 kPa	3,626 psi
Pilot System – Maximum Flow	22 L/min	5.8 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi

## Drive

Maximum Travel Speed	5.4 km/h	3.7 mph
Maximum Drawbar Pull	113 kN	25,403 lbf

## Machine Weights

Minimum Operating Weight	13 500 kg	29,770 lb
Maximum Operating Weight	15 000 kg	33,080 lb

## Swing

Swing Speed	10.9 rpm	
Swing Torque	30.9 kN·m	22,791 lbf·ft

## Service Refill Capacities

Fuel Tank Capacity	250 L	66.0 gal
DEF Tank Capacity	19.6 L	5.2 gal
Cooling System	11 L	2.9 gal
Engine Oil (with filter)	13.5 L	3.6 gal
Swing Drive	2.4 L	0.6 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System Oil (including tank)	103 L	27.2 gal
Hydraulic Tank Oil	90.6 L	23.9 gal

## Sound Performance

ISO 6396 – Operator Sound Pressure Level	69 dB(A)
ISO 6395 – Exterior Sound Power Level	101 dB(A)

## Dimensions\*

	Reach Boom – 4.65 m (15'3")	
Stick	R3.0 m (9'10")	
Shipping Height	2820 mm	9'3"
Shipping Length	7670 mm	25'2"
Tail Swing Radius	2160 mm	7'1"
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 – 700 mm (28") Shoes	2690 mm	8'10"
Cab Height	2770 mm	9'1"
Cab Height with Top Guard	2970 mm	9'9"
Counterweight Clearance	890 mm	2'11"

## Working Ranges\*

	Reach Boom – 4.65 m (15'3")	
Stick	R3.0 m (9'10")	
Maximum Digging Depth	6040 mm	19'10"
Maximum Reach at Ground Level	8230 mm	27'0"
Maximum Cutting Height	8720 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	5250 mm	17'2"

## Bucket & Stick Forces\*

	Reach Boom – 4.65 m (15'3")	
Stick	R3.0 m (9'10")	
Bucket Type	General Duty Bucket	
Bucket Digging Force (SAE)	85 kN	19,200 lbf
Stick Digging Force (SAE)	57 kN	12,800 lbf
Bucket Digging Force (ISO)	95 kN	21,400 lbf
Stick Digging Force (ISO)	58 kN	13,100 lbf

\*With 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>), 900 mm (36") bucket.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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Replaces AEXQ1797  
(AUZ/EU/NACD)

