



Cat[®] 316F L

Hydraulic Excavator

2017

The Cat[®] 316F 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 more profitable attachment line for your machine at 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 with 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[®] 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 engine shutoff switch shuts down the engine in case of emergency.
- Standard rearview camera and mirrors enhance visibility.
- The side-view camera enhances visibility on the boom side of the machine to help make operators more effective and efficient.



Cat® 316F L Hydraulic Excavator

Engine

Engine Model	Cat C4.4 ACERT	
Net Power – SAE J1349/ISO 9249	88 kW	117 hp/118 PS
Net Power – ISO 14396	91 kW	122 hp/123 PS
Gross Power – SAE J1995	91 kW	122 hp/123 PS
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³
<ul style="list-style-type: none"> The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO₂ equivalent of 1.43 metric tonnes. 		

Hydraulic System

Main System – Maximum Flow (total)	300 L/min	79 gal
Maximum Pressure – Equipment	35 MPa	5,076 psi
Maximum Pressure – Travel	35 MPa	5,076 psi
Maximum Pressure – Swing	25 MPa	3,626 psi
Pilot System – Maximum Flow	25 L/min	6.6 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi

Drive

Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	156 kN	35,070 lbf

Machine Weights

Operating Weight*	17 700 kg	39,029 lb
*5.1 m (16'9") reach boom, 2.6 m (8'6") stick and 700 mm (28") track shoes, with 0.76 m ³ (0.99 yd ³) GD bucket.		

Swing

Swing Speed	8.9 rpm	
Swing Torque	49.6 kN·m	36,582 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	290 L	76.61 gal
DEF Tank Capacity	20.5 L	5.4 gal
Cooling System	26 L	6.9 gal
Engine Oil (with filter)	13.5 L	3.57 gal
Swing Drive	8 L	2.11 gal
Final Drive (each)	8 L	2.11 gal
Hydraulic System (including tank)	121 L	31.96 gal
Hydraulic Tank	106 L	28.00 gal

Sound Performance

ISO 6396 – Operator Sound Pressure Level	71 dB(A)
Exterior Sound Power Level	102 dB(A)

Dimensions*

	Reach Boom – 5.1 m (16'9")	
Stick	R2.6 m (8'6")	
Shipping Height	3050 mm	10'2"
Shipping Length	8570 mm	28'1"
Tail Swing Radius	2500 mm	8'2"
Length to Center of Rollers	3170 mm	10'0"
Track Length	3970 mm	13'0"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width – 700 mm (28") Shoes	2690 mm	8'10"
Cab Height	2890 mm	9'6"
Cab Height with Top Guard	3100 mm	10'2"
Counterweight Clearance	1010 mm	3'4"

Working Ranges*

	Reach Boom – 5.1 m (16'9")	
Stick	R2.6 m (8'6")	
Maximum Digging Depth	6090 mm	20'0"
Maximum Reach at Ground Level	8780 mm	28'10"
Maximum Cutting Height	8920 mm	29'3"
Maximum Loading Height	6280 mm	20'7"
Minimum Loading Height	2300 mm	7'6"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5870 mm	19'4"
Maximum Vertical Wall Digging Depth	4960 mm	16'3"

Bucket & Stick Forces*

	Reach Boom – 5.1 m (16'9")	
Stick	R2.6 m (8'6")	
Bucket Type	General Duty Bucket	
Bucket Digging Force (SAE)	98 kN	22,000 lbf
Bucket Digging Force (ISO)	111 kN	25,000 lbf
Stick Digging Force (SAE)	77 kN	17,310 lbf
Stick Digging Force (ISO)	80 kN	18,000 lbf

*With a 0.76 m³ (1.00 yd³), 900 mm (41") bucket.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2017 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

AEXQ1911-01
Replaces AEXQ1911
(AUZ, EU, NACD)

