



Cat[®] 315F L

Hydraulic Excavator

2017

The Cat[®] 315F 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 to 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 money-making 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 (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

- 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.
- Optional 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 (Europe only).



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Engine

Engine Model	Cat C4.4 ACERT	
Gross Power – SAE J1995	74 kW	100 hp/101 PS
Net Power – SAE J1349/ISO 9249	72 kW	97 hp/98 PS
Engine Power – ISO 14396	74 kW	100 hp/101 PS
Bore	105 mm	4.1 in
Stroke	127 mm	5.0 in
Displacement	4.4 L	270 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 0.6 kg of refrigerant which has a CO₂ equivalent of 0.858 metric tonnes. 		

Hydraulic System

Main System – Maximum Flow (total)	256 L/min	67 gal/min
Maximum Pressure – Equipment	30 500 kPa	4,420 psi
Maximum Pressure – Power Offset Boom (optional)	29 900 kPa	4,340 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	4.8 gal/min
Pilot System – Maximum Pressure	4120 kPa	600 psi

Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	113 kN	25,400 lbf

Machine Weights

Minimum Operating Weight	15 100 kg	33,296 lb
Maximum Operating Weight	17 140 kg	37,794 lb

Swing

Swing Speed	11.5 rpm	
Swing Torque	30.9 kN-m	22,790 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	178 L	47.0 gal
DEF Tank Capacity	19 L	5.0 gal
Cooling System	28 L	7.40 gal
Engine Oil (with filter)	13.5 L	3.6 gal
Swing Drive (each)	2.4 L	0.6 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	160 L	42.3 gal
Hydraulic Tank	84 L	22.2 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	3000 mm	9'10"
Shipping Length with Blade	8010 mm	26'3"
Tail Swing Radius	1530 mm	5'0"
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	2810 mm	9'3"
Cab Height with Top Guard	2950 mm	9'8"
Counterweight Clearance	860 mm	2'10"

Working Ranges*

Reach Boom – 4.65 m (15'3")		
Stick R3.0 m (9'10")		
Maximum Digging Depth	5950 mm	19'6"
Maximum Reach at Ground Level	8680 mm	28'6"
Maximum Cutting Height	9640 mm	31'8"
Maximum Loading Height	7190 mm	23'7"
Minimum Loading Height	2060 mm	6'9"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5770 mm	18'11"
Maximum Vertical Wall Digging Depth	5280 mm	17'4"

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
Bucket Digging Force (ISO)	95.3 kN	21,420 lbf
Stick Digging Force (SAE)	57 kN	12,800 lbf
Stick Digging Force (ISO)	58.4 kN	13,130 lbf

*With 0.53 m³ (0.69 yd³), 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

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