



# Cat<sup>®</sup> 313F L

## *Hydraulic Excavator*

### **Performance**

- Same working range as 312E
- Similar stick and bucket force and swing torque as 312E
- Powerful, efficient, C4.4 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV engine
- Equipped to run on up to B20 biodiesel fuel
- Advanced control to automatically manage pump and engine speed for maximum efficiency
- Two power modes, high power and eco mode, to help actively manage fuel consumption
- Engine idle shutdown to save fuel, reduce emissions, and extend service intervals

### **Versatility**

- Cat<sup>®</sup> buckets and tools designed to max out machine performance
- Auxiliary hydraulics available to support a variety of tools
- Available tool control and quick coupler for speedy tool changes

### **Comfort**

- Full-size ROPS certified cab
- Adjustable joysticks and seats with air suspension and heat and cooling options
- Monitor programmable in 42 languages
- Automatic climate control system
- Drink holder and easy-to-reach storage areas
- Auxiliary power outlets

### **Serviceability**

- Routine maintenance points at ground level
- Wide service doors for easy access
- Filters grouped to reduce service time
- Cooling package designed to prevent plugging, make blowing off debris easy

### **Technology**

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

### **Durability**

- Modified X-frame structure for enhanced service life
- Robot welded, Caterpillar designed boom and sticks
- Greased track link between pins and bushings to increase undercarriage life

### **Safety**

- Hydraulic activation lever to lock out all hydraulic functions
- Handrail, anti-skid plating, countersunk bolts to reduce slipping and tripping
- Ground-level fuel cutoff switch to shut down engine
- Standard rearview camera and mirrors for enhanced visibility



# Cat® 313F L Hydraulic Excavator

## Engine

Engine Model	C4.4 ACERT	
Gross Power – SAE J1995	74.4 kW	100 hp/101 PS
Net Power – SAE J1349	68.5 kW	92 hp/93 PS
Power – ISO 14396	74.4 kW	100 hp/101 PS
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in <sup>3</sup>

## Hydraulic System

Main System – Maximum Flow (Total)	254 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	23 000 kPa	3,336 psi
Pilot System – Maximum Flow	21.9 L/min	1,336 in <sup>3</sup> /min
Pilot System – Maximum Pressure	4120 kPa	598 psi

## Drive

Maximum Travel Speed	5.4 km/h	3.7 mph
Maximum Drawbar Pull	114 kN	25,628 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	223 L	58.9 gal
DEF Tank Capacity	20.5 L	5.4 gal
Cooling System	22 L	5.81 gal
Engine Oil (with filter)	13.5 L	3.57 gal
Swing Drive	2.4 L	0.63 gal
Final Drive (each)	3 L	0.79 gal
Hydraulic System Oil (including tank)	164 L	43.32 gal
Hydraulic Tank Oil	90.6 L	23.93 gal

## Sound Performance

ISO 6396 – Operator Sound Pressure Level	69 dB(A)
ISO 6395 – Exterior Sound Power Level	100 dB(A)

## Dimensions\*

	Reach Boom – 4.65 m (15'3")	
Stick	R3.0 m (9'10")	
Shipping Height	2980 mm	9'9"
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	8620 mm	28'3"
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	5200 mm	17'1"

## 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 (35 in) bucket.

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