



Cat[®] 318F L

Hydraulic Excavator

Performance

- C4.4 ACERT™ U.S. EPA Tier 4 Final/EU Stage IV engine
- Same working range, similar stick and bucket force and swing torque as 318E
- Equipped to run on up to B20 biodiesel fuel
- Two power modes, high power and eco mode, to help manage fuel consumption
- Auto engine idle shutdown to save fuel, reduce emissions, and extend service intervals

Versatility

- Cat[®] 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
- Available Cat Grade Control to help operators create a level base and precise slope with ease
- Product Link™/VisionLink[®] to connect 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



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Engine

Engine Model	Cat C4.4 ACERT	
Net Power – SAE J1349/ISO 9249	88 kW	117 hp/119 PS
Net Power – ISO 14396	91 kW	122 hp/124 PS
Gross Power – SAE J1995	91 kW	122 hp/124 PS
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in³

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	23 MPa	3,336 psi
Pilot System – Maximum Flow	26.1 L/min	1,593 in³/min
Pilot System – Maximum Pressure	4120 kPa	598 psi

Drive

Maximum Travel Speed	3.9 km/h	2.4 mph
Maximum Drawbar Pull	206.9 kN	46,513 lbf

Machine Weights

Minimum Operating Weight	18 600 kg	41,010 lb
Maximum Operating Weight	19 200 kg	42,340 lb

Swing

Swing Speed	8.9 rpm	
Swing Torque	50.7 kN·m	37,394 lbf·ft

Service Refill Capacities

Fuel Tank Capacity	290 L	76.61 gal
DEF Tank Capacity	44 L	11.62 gal
Cooling System	24 L	6.34 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)
ISO 6395 – Exterior Sound Power Level	101 dB(A)

Dimensions*

	Reach Boom – 5.1 m (16'9")	
Stick	R2.6 m (8'6")	
Shipping Height	3100 mm	10'2"
Shipping Length	8580 mm	28'2"
Tail Swing Radius	2500 mm	8'2"
Length to Center of Rollers	3265 mm	10'9"
Track Length	4075 mm	13'4"
Ground Clearance	440 mm	1'5"
Track Gauge	1990 mm	6'6"
Transport Width – 700 mm (28") Shoes	2690 mm	8'10"
Cab Height	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	8930 mm	29'4"
Maximum Loading Height	6280 mm	20'7"
Minimum Loading Height	2310 mm	7'7"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5860 mm	19'3"
Maximum Vertical Wall Digging Depth	4920 mm	16'2"

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)	109 kN	24,400 lbf
Bucket Digging Force (ISO)	123 kN	27,700 lbf
Stick Digging Force (SAE)	74 kN	16,700 lbf
Stick Digging Force (ISO)	86 kN	19,300 lbf

*With a 0.91 m³ (1.19 yd³), 1050 mm (41") GD bucket.

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