



# Cat<sup>®</sup> 313F L GC

## Hydraulic Excavator

### Performance

- Same working range, stick and bucket force, and swing torque and speed as 312E in eco mode with same fuel consumption.
- Simple load-sense hydraulics, available quick coupler, and Cat<sup>®</sup> Work Tools make it perfect for everyday tasks like light excavating, cleanup work, and fine grading.
- Meets U.S. EPA Tier 4 Final emission standards without the need for diesel exhaust fluid.
- Engine idle shutdown saves fuel, reduces emissions, and extends service intervals.
- High power and eco mode allow more active fuel management.
- Long undercarriage provides a more stable platform compared to same-size competitors.
- Easy to get to the job on a common tag trailer.

### Comfort

- The machine is quiet inside and out.
- Full-size ROPS cab has special mounts, sealing, and insulation to reduce noise.
- Ample glass gives great views out front and to the side; large rear window provides excellent visibility out back.
- Mechanical suspension seat is fully adjustable.
- Joystick consoles adjust to improve comfort and productivity.
- Monitor can memorize up to 10 different work tools and is programmable in 42 languages.
- Automatic climate control system features multiple air outlets with filtered ventilation.
- Abundant storage spaces, a drink holder, and power supply socket for electronic devices enhance overall comfort.

### Safety

- ROPS cab helps protect seated, seat-belt-restrained operator.
- Anti-skid plate prevents slipping and can be removed for cleaning.
- Handrails, track frame, and storage box steps assist climbing up and down.
- Fan guard reduces the risk of coming in contact with fan blades.

### Durability

- Machine is built for long service life and excellent resale value.
- Upper frame includes special mountings made specially to support the heavy-duty cab.
- Lower frame is reinforced to enhance component durability.
- Undercarriage, track shoes, links, rollers, idlers, and final drives are all built with high-tensile-strength steel for long-term durability.
- Counterweight matches the machine's sleek appearance and provides plenty of balance.
- Boom and stick are built with internal baffle plates for added durability and undergo ultrasound inspection to ensure weld quality and reliability.
- Large box-section structures with thick multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability.
- Front linkage pins' inner bearing surfaces are welded with a self-lubricated bearing to extend service intervals and increase uptime.

### Serviceability

- Simple engine and hydraulics mean less parts, less complexity, less maintenance, and lower owning and operating costs.
- No sensors or computers are needed to manage hydraulics.
- A pilot manifold in the valve block means no need for a pilot pump, filter, or lines.
- Proven fuel system and manual priming pump reduce need for multiple filters.
- Wide service doors give plenty of access to cooling, pump, and engine compartments.
- Everyday maintenance points reachable at ground level.
- Diesel particulate filter is compact and maintenance free.

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## Engine

Engine Model	C3.4B	
Gross Power – SAE J1995	55 kW	74 hp
Net Power – SAE J1349	52 kW	70 hp
Engine rpm		
Operation	1,700 rpm	
Travel	1,800 rpm	
Bore	99 mm	3.90 in
Stroke	110 mm	4.33 in
Displacement	3.4 L	207 in <sup>3</sup>

## Hydraulic System

Main System – Maximum Flow (total)	240 L/min	63.4 gal/min
Maximum Pressure – Equipment	30 502 kPa	4,424 psi
Maximum Pressure – Travel	30 502 kPa	4,424 psi
Maximum Pressure – Swing	23 MPa	3,336 psi
Pilot System – Maximum Pressure	4120 kPa	598 psi

## Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	109.9 kN	24,706 lbf

## Machine Weights

Operating Weight	13 300 kg	29,300 lb
• Long undercarriage, reach boom, R3.0 (9'10") stick, GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) bucket, and 500 mm (20") shoes.		

## Swing

Swing Speed	11.7 rpm	
Swing Torque	30.9 kN-m	22,791 lbf-ft

## Service Refill Capacities

Fuel Tank Capacity	250 L	66.0 gal
Cooling System	17.9 L	4.7 gal
Engine Oil	8 L	2.1 gal
Swing Drive	3 L	0.8 gal
Final Drive	3 L	0.8 gal
Hydraulic System (including tank)	164 L	43.3 gal
Hydraulic Tank	90.6 L	23.9 gal

## Sound Performance

ISO 6396 – Operator Noise (Closed)	72 dB(A)
ISO 6395 – Spectator Noise	99 dB(A)

## Dimensions

Boom Options	Reach Boom 4.65 m (15'3")	
Stick Options	R3.0 (9'10")	
Shipping Height	3150 mm	10'4"
Shipping Length	7620 mm	25'0"
Shipping Length with Blade	7970 mm	26'2"
Tail Swing Radius	2170 mm	7'0"
Length to Center of Rollers	3040 mm	10'0"
Track Length	3750 mm	12'4"
Ground Clearance	440 mm	1'5"
Track Gauge (shipping)*	1990 mm	6'6"
Transport Width – 700 mm (28 in) Shoes	2690 mm	8'10"
Cab Height	2760 mm	9'1"
Cab Height with Top Guard	2900 mm	9'6"
Counterweight Clearance	880 mm	2'11"

\*With GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>) bucket

## Working Ranges

Boom Options	Reach Boom 4.65 m (15'3")	
Stick Options	R3.0 (9'10")	
Maximum Digging Depth	6030 mm	19'9"
Maximum Reach at Ground Line	8620 mm	28'3"
Maximum Cutting Height	8710 mm	28'6"
Maximum Loading Height	6340 mm	20'10"
Minimum Loading Height	1530 mm	5'0"
Maximum Depth Cut for 2240 mm (8 ft) Level Bottom	5850 mm	19'2"
Maximum Vertical Wall Digging Depth	5310 mm	17'5"

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