



# Cat® 312F L

## Hydraulic Excavator

### FORESTRY

#### 2017

*The Cat® 312F L Forestry is a perfect choice for customers who value versatility, reliability, durability, and maximum efficiency.*

- *Additional mesh screen and covers to avoid entry of dead leaf. This is prevention of fire incident.*
- *Single grouser shoe (500 mm) for soft ground and slope.*
- *Tool tray in front of cab structure.*
- *Third pump combined AUX circuit with large diameter front AUX lines for harvester.*

### Performance

- The C4.4 ACERT™ Japan 2014 (Tier 4 Final) engine is powerful and efficient.
- 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 attachment line for your machine at [www.cat.com/attachments](http://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.
- 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 and makes 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.



オフロード法2014年  
基準適合

# Cat® 312F L Hydraulic Excavator – Forestry

## Engine

Engine Model	C4.4 ACERT
Gross Power – SAE J1995	74 kW
Net Power – SAE J1349	69 kW
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.287 metric tonnes.

## Hydraulic System

Main System – Maximum Flow (total)	256 L/min
Maximum Pressure – Equipment	30 500 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	22 L/min
Pilot System – Maximum Pressure	4120 kPa

## Drive

Maximum Travel Speed	5.4 km/h
Maximum Drawbar Pull	113 kN

## Machine Weights

Minimum Operating Weight	13 700 kg
Maximum Operating Weight	15 000 kg

## Swing

Swing Speed	10.9 rpm
Swing Torque	30.9 kN·m

## Service Refill Capacities

Fuel Tank Capacity	223 L
DEF Tank Capacity	20 L
Cooling System	22 L
Engine Oil (with filter)	13.5 L
Swing Drive	2.4 L
Final Drive (each)	3 L
Hydraulic System Oil (including tank)	164 L
Hydraulic Tank Oil	91 L

## Dimensions\*

	Reach Boom – 4.65 m
<b>Stick</b>	<b>R2.5 m</b>
Shipping Height	2950 mm
Shipping Length	7660 mm
Tail Swing Radius	2160 mm
Length to Center of Rollers	2780 mm
Track Length	3540 mm
Ground Clearance	440 mm
Track Gauge	1990 mm
Transport Width – 700 mm Shoes	2690 mm
Cab Height	2810 mm
Cab Height with Top Guard	2950 mm
Counterweight Clearance	900 mm

## Working Ranges\*

	Reach Boom – 4.65 m
<b>Stick</b>	<b>R2.5 m</b>
Maximum Digging Depth	5540 mm
Maximum Reach at Ground Level	8180 mm
Maximum Cutting Height	8520 mm
Maximum Loading Height	6100 mm
Minimum Loading Height	2020 mm
Maximum Depth Cut for 2440 mm Level Bottom	5330 mm
Maximum Vertical Wall Digging Depth	4990 mm

## Bucket & Stick Forces\*

	Reach Boom – 4.65 m
<b>Stick</b>	<b>R2.5 m</b>
<b>Bucket Type</b>	<b>General Duty Bucket</b>
Bucket Digging Force (SAE)	85 kN
Stick Digging Force (SAE)	63 kN
Bucket Digging Force (ISO)	95 kN
Stick Digging Force (ISO)	65 kN

\*With 0.52 m<sup>3</sup>, 900 mm bucket.

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Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with ship weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.

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(Japan)

