



Cat[®] 311F L RR

Hydraulic Excavator

2017

If you want a machine with the power to match your jobs but owning and operating costs to fit your business, then the Cat[®] 311F L RR excavator is your answer. Its reduced radius will get you into some pretty tight spots, and its affordability and miserly fuel burn will help you operate on a tight budget.

Fuel Efficiency

- The C3.4B engine meets Japan 2014 (Tier 4 Final) emission standards and burns up to 20% less fuel than the model it replaces, the 311D RR.
- Two power modes, high power and eco mode, help operators manage fuel consumption.
- Auto engine idle shutdown saves fuel, reduces emissions, and extends service intervals.

Versatility

- Reduced radius is ideal for work in space-restricted areas.
- Site prep and finishing work are quick and easy with a Cat grapple, thumb, and hammer.
- 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 full-size 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 and heated and cooled options.
- The LCD monitor is easy to navigate and programmable in 42 languages.

Durability

- Booms and sticks are built with baffle plates for enhanced service life.
- Box-section structures with multi-plate fabrications, castings, and forgings are used in high-stress areas.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

Maintenance

- Routine maintenance items like grease points and fluid taps are reachable from ground level.
- Service doors design is different from other F Series to make access to fluid taps and filters easy.
- The cooling package is designed to prevent plugging and has wide clearance to help make blowing off debris easy.

Technology

- Cat Connect technology improves job site efficiency.
- Product Link[™] system connects owners to their equipment, providing access to machine data such as location, hours, fuel consumption, idle time, events, and diagnostic codes.



オフロード法2014年
基準適合



国土交通省指定
低騒音型建設機械

Cat® 311F L RR Hydraulic Excavator

Engine

Gross Power – SAE J1995	55 kW
Net Power – SAE J1349	52 kW
Bore	99 mm
Stroke	110 mm
Displacement	3.4 L

Hydraulic System

Main System – Maximum Flow (total)	125 × 2 L/min
Maximum Pressure – Equipment	30.5 MPa
Maximum Pressure – Travel	35 MPa
Maximum Pressure – Swing	23 MPa
Pilot System – Maximum Flow	21.9 L/min
Pilot System – Maximum Pressure	4120 kPa
Boom Cylinder – Bore	100 mm
Boom Cylinder – Stroke	1002 mm
Stick Cylinder – Bore	110 mm
Stick Cylinder – Stroke	1194 mm
Bucket Cylinder – Bore	100 mm
Bucket Cylinder – Stroke	939 mm

Drive

Maximum Travel Speed – High	5.4 km/h
Maximum Travel Speed – Low	3.6 km/h
Maximum Drawbar Pull	114.3 kN

Machine Weight

Operating Weight*	12 000 kg
Operating Weight**	12 800 kg

*4.3 m Reach boom, R2.25 m stick, 500 mm shoes, without blade, with 0.52 m³ bucket

**4.3 m Reach boom, R2.25 m stick, 500 mm shoes, with blade, with 0.52 m³ bucket

Swing

Swing Speed	10 rpm
Swing Torque	30.9 kN-m

Service Refill Capacities

Fuel Tank Capacity	210 L
Cooling System	9 L
Engine Oil (with filter)	8 L
Swing Drive (each)	2.4 L
Final Drive (each)	3 L
Hydraulic System (including tank)	160 L
Hydraulic Tank	95 L

Track

Number of Shoes (each side)	43 pieces
Number of Track Rollers (each side)	6 pieces
Number of Carrier Rollers (each side)	1 piece

Sound

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

Dimensions

	Reach Boom – 4.3 m
Stick	R2.25 m
Shipping Height	2860 mm
Shipping Height at Boom Top	2860 mm
Handrail Height	2820 mm
Shipping Length – Long Undercarriage	6910 mm
Shipping Length – Long Undercarriage with Blade	7530 mm
Tail Swing Radius	1750 mm
Length to Center of Rollers	2780 mm
Track Length	3490 mm
Ground Clearance	440 mm
Track Gauge	1990 mm
Transport Width – 500 mm Shoes	2490 mm
Cab Height	2760 mm
Cab Height with Top Guard	2900 mm
Counterweight Clearance	900 mm

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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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.

AEXQ1926
(Japan)

