



# Cat<sup>®</sup> 349F L XE

## Hydraulic Excavator

### 2017

*The 349F L XE is built to keep your production numbers up and your owning and operating costs down while giving you all the power, fuel efficiency, and reliability you need to succeed.*

#### Performance

- Cat<sup>®</sup> XE technology, like the exclusive Cat Adaptive Control System (ACS) valve enables the machine to consume up to 15% less fuel than the standard 349F L, while delivering the same high level of production.
- The C13 ACERT<sup>™</sup> engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards.
- Automatic engine speed control lowers rpm based on load for reduced fuel consumption.
- Power modes help you more actively manage fuel consumption.

#### Cat Connect Technology

- Cat Connect technology solutions increase production, minimize operating costs, and optimize return on investment by offering LINK, GRADE, and DETECT technologies.
- Cat Production Measurement brings payload weighting to the cab so you can work more productively and deliver accurate loads with confidence.
- VisionLink<sup>®</sup> provides wireless access to machine operating data such as location, hours, idle time, fuel usage, productivity, and diagnostic codes to optimize performance.
- Cat Grade Control and AccuGrade<sup>™</sup> provide real-time cut and fill information to assist you in attaining grades and slopes more quickly and accurately.

#### Maintenance

- Routine maintenance items like grease points and fluid taps are easy to reach at ground level.
- The side-by-side cooling system enables easy cleaning.
- Multiple S-O-S<sup>SM</sup> ports and pressure diagnostic taps help prevent maintenance downtime.

#### Comfort

- The full-size roll-over protective structure (ROPS) certified cab is quiet and comfortable.
- 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 44 languages.

#### Versatility

- Demolition work is quick and easy with a Cat shear or multiprocessor.
- Quarry work is no problem with a purpose-built Cat bucket and hammer.
- A Cat coupler lets you swap between attachments in seconds without leaving the cab.
- Tool control option remembers pressures and flows for up to 20 tools to enhance uptime.

#### Durability

- Booms and sticks are built for long service.
- Box-section structures with multi-plate fabrications, castings, and forgings are used in high-stress areas. Track shoes, links, rollers, idlers, and final drives are built with high-tensile-strength steel.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

#### Safety

- Smart refuel fills the machine quickly from an external fuel source; it automatically stops when the fuel tank is full or the fuel source is empty, eliminating guess work and premature pump wear.
- The rearview and side-view cameras enhance visibility to help make operators more effective and efficient.
- Extended hand and guard rails allow for safer climbing to the upper deck, and anti-skid plates reduce slipping hazards in all types of weather conditions.



# Cat® 349F L XE Hydraulic Excavator

## Engine

Engine Model	Cat C13 ACERT	
Gross Power – SAE J1995	322 kW	432 hp/438 PS
Engine Power – ISO 14396	317 kW	425 hp/431 PS
Net Power – SAE J1349	304 kW	408 hp/413 PS
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in <sup>3</sup>

## Machine Weight

Operating Weight*	49 110 kg	108,300 lb
*349F L XE with Long FIX undercarriage, 6.9 m (22'8") reach boom, R3.35TB (11'0") HD stick, 9.0 mt (9.9 t) counterweight, 3.1 m <sup>3</sup> (4.1 yd <sup>3</sup> ) bucket, 600 mm (24") DG shoes.		

## Hydraulic System

Main System – Maximum Flow (total)	750 L/min	198 gal/min
Swing System – Maximum Flow	375 L/min	99 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,510 psi
Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	27 500 kPa	3,990 psi
Pilot System – Maximum Flow	26 L/min	6.9 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi

## Drive

Maximum Travel Speed	4.7 km/h	2.9 mph
Maximum Drawbar Pull	335 kN	75,300 lbf

## Swing

Swing Speed	8.5 rpm	
Swing Torque	148.5 kN-m	109,500 lbf-ft

## Service Refill Capacities

Fuel Tank Capacity	720 L	190 gal
Cooling System	50 L	13.2 gal
Engine Oil (with filter)	38 L	10 gal
Swing Drive (each)	10 L	2.6 gal
Final Drive (each)	15 L	4.0 gal
Hydraulic System (including tank)	570 L	150.6 gal
Hydraulic Tank	407 L	107.5 gal
DEF Tank	41 L	10.8 gal

## Sound Performance

Exterior – ISO 6395	106 dB(A)
Operator – SAE J1166/ISO 6396	69 dB(A)

## Dimensions

<b>Boom Option</b>	<b>Heavy-Duty R6.9m (22'8")</b>	
<b>Stick Option</b>	<b>R3.9TB HD (12'10")</b>	
Undercarriage	Long Fix	
Shipping Height	3670 mm	12'0"
Shipping Length	11 930 mm	39'2"
Tail Swing Radius	3760 mm	12'4"
Length to Center of Rollers	4360 mm	14'4"
Track Length	5370 mm	17'7"
Ground Clearance	510 mm	1'8"
Track Gauge	2740 mm	9'0"
Transport Width – 900 mm (35") Shoes	3640 mm	11'11"
Cab Height	3220 mm	10'7"
Cab Height with Top Guard	3390 mm	11'1"
Counterweight Clearance*	1280 mm	4'2"

\*Without shoe lug height.

## Working Ranges

<b>Boom Option</b>	<b>Heavy-Duty R6.9m (22'8")</b>	
<b>Stick Option</b>	<b>R3.9TB HD (12'10")</b>	
Undercarriage	Long Fix	
Maximum Digging Depth	8210 mm	26'11"
Maximum Reach at Ground Level	12 150 mm	39'10"
Maximum Cutting Height	10 730 mm	35'2"
Maximum Loading Height	7420 mm	24'4"
Minimum Loading Height	2200 mm	7'3"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8080 mm	26'6"
Maximum Vertical Wall Digging Depth	5960 mm	19'7"

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