



Cat[®] 349F L

Hydraulic Excavator

2017

The 349F L 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

- The C13 ACERT™ engine meets U.S. EPA Tier 4 Final, Korea Tier 4 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.
- VisionLink[®] 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™ 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-SSM 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.



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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/ISO 9249	311 kW	417 hp/423 PS
Bore	130 mm	5.12 in
Stroke	157 mm	6.18 in
Displacement	12.5 L	763 in³

Machine Weight

Operating Weight*	48 600 kg	107,145 lb
*349F L with long fix undercarriage, HD R6.9m (22'8") boom, R3.35m (11'0") stick, 3.1 m³ (4.1 yd³) GP bucket, 600 mm (24") DG shoes.		

Hydraulic System

Main System – Maximum Flow (total)	770 L/min	203 gal/min
Swing System – Maximum Flow	385 L/min	102 gal/min
Maximum Pressure – Equipment		
Heavy Lift	38 000 kPa	5,512 psi
Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	27 500 kPa	3,989 psi
Pilot System – Maximum Flow	27 L/min	7.1 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 Mechanism

Swing Speed	8.7 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 Capacity	41 L	11 gal

Sound Performance

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

Dimensions

Boom	Heavy-Duty R6.9m (22'8")	
Stick	R3.35TB HD (11'0")	
Undercarriage	Long Fix	
Shipping Height	3730 mm	12'3"
Shipping Length	11 900 mm	39'0"
Tail Swing Radius	3730 mm	12'2"
Length to Center of Rollers	4360 mm	14'4"
Track Length	5370 mm	17'7"
Ground Clearance		
Including Shoe Lug Height	480 mm	1'7"
Without Shoe Lug Height	510 mm	1'8"
Track Gauge	2740 mm	9'0"
Transport Width – 600 mm (24") Shoes	3340 mm	10'11"
Transport Width – 750 mm (30") Shoes	3490 mm	11'5"
Cab Height	3230 mm	10'6"
Cab Height with Top Guard	3430 mm	11'3"
Counterweight Clearance*	1280 mm	4'2"
*Without shoe lug height.		

Working Ranges

Boom	Heavy-Duty R6.9m (22'8")	
Stick	R3.35TB HD (11'0")	
Undercarriage	Long Fix	
Maximum Digging Depth	7660 mm	25'2"
Maximum Reach at Ground Level	11 730 mm	38'6"
Maximum Cutting Height	10 820 mm	35'6"
Maximum Loading Height	7430 mm	24'5"
Minimum Loading Height	2750 mm	9'0"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7520 mm	24'8"
Maximum Vertical Wall Digging Depth	5830 mm	19'2"

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AEXQ1899-01
Replaces AEXQ1899
(AmN, ANZ, South Korea)

