



# Cat<sup>®</sup> 340

## Long Reach

### Hydraulic Excavator

**With standard Cat<sup>®</sup> PAYLOAD and GRADE with 2D, the Cat 340 LRE will help you hit your targets all day long – even up to distances nearly 18 meters (60 feet) away. When you add in an all-new cab, longer maintenance intervals that lower your maintenance costs up to 15 percent, and a power system that improves fuel efficiency up to 15 percent, you won't find a better excavator for tough, hard-to-reach work.**

**Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.**

### **Boost Efficiency and Productivity with Integrated Cat Connect Technologies**

- Boost productivity up to 45 percent versus traditional grading with standard Cat GRADE with 2D system – includes indicate-only and laser capability.
- Standard Grade Assist: Stay on grade – simply and effortlessly – with single-lever digging.
- Set your desired bucket angle and let Bucket Assist automatically maintain the angle in sloping, leveling, fine grading, and trenching applications.
- Keep the tracks on ground in lifting and hard digging with Boom Assist.
- Automatically stop excavator swing at operator-defined set points in truck loading and trenching applications with Swing Assist, which will help you use less effort and consume less fuel.
- Standard Cat PAYLOAD on-board weighing system: Achieve precise load targets and increase loading efficiency with on-the-go weighing and real-time estimates of your payload without swinging.
- Add VisionLink<sup>®</sup> and remotely manage your production targets.
- Upgrade to optional Cat GRADE with Advanced 2D: Create and edit grade designs with ease on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Upgrade to optional Cat GRADE with 3D: Create and edit designs with ease and see the front linkage's full range of motion on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Know the excavator's exact position relative to GPS and GLONASS systems. The machine automatically compensates for excavator pitch and roll caused by sloping ground conditions.
- Remote Troubleshoot connects you to a dealer service pro to help solve your problem and quickly get you to work.

- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and even allows you to request service from your local Cat dealer.
- Standard Product Link<sup>™</sup> provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through VisionLink online interface, helping you improve job site efficiency with lower operating costs.

### **High Performance with Lower Fuel Consumption**

- Get up to 15 percent higher fuel efficiency – more work per unit of fuel – than the Cat 340F LRE excavator.
- Match the excavator to the job with three power modes – Power, Smart, and Eco. Smart mode automatically matches engine and hydraulic power to working conditions, providing max power when needed and reducing power when it isn't to help save fuel.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments, including the heaviest tools needed for demolition work.
- Don't let the temperature stop you from working. This excavator has a high-ambient capability of 52° C (125° F) and cold start capability of -18° C (0° F).
- Advansys<sup>™</sup> bucket tips increase production and lower costs with more tip life.
- Know where your work tools are and how much you use them; the machine can track all attachments equipped with Cat asset tracker technology.



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## Work in Comfort in the All-New Cab

- The cab comes with a deluxe heated seat and climate control.
- Get in and out of the cab easier with the tip-up left console.
- Advanced viscous mounts reduce cab vibration up to 50 percent over previous excavator models.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are also provided.
- Use the standard radio's USB ports and Bluetooth® technology to connect personal devices and make hands-free calls.

## Simple to Operate

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember them every time you go to work.
- Automatic hydraulic oil warm up gets you to work faster in cold temperatures and helps prolong the life of components.
- Navigate quickly on the standard high-resolution touchscreen monitor or with the aid of the jog dial control.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

## Easy to Maintain

- Expect up to 15 percent less maintenance cost than the 340F LRE due to extended and synchronized service intervals and smaller fluid quantities. (Savings calculated over 12,000 machine hours.)
- Check hydraulic system oil and easily drain fuel system water and fuel tank water from ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.

- Change all fuel filters at a synchronized 1,000 hours. Oil and fuel filters grouped and located on right-hand side of machine for easy maintenance.
- The new air intake filter with pre-cleaner has double the dirt holding capacity of the previous air intake filter.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- The high-efficiency hydraulic fan has an optional automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- S-O-S<sup>SM</sup> ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

## Work Safer

- HD High Wide undercarriage provides a stable, rugged platform for long reach digging and loading applications with high ground clearance.
- Lift Assist helps you avoid tipping by letting you know if your load is within the excavator's safe working range limits.
- Standard 2D E-Fence integrated right out of the factory prevents the excavator from moving outside of operator-defined set points.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- A travel direction indicator helps operators know which way to activate the travel levers.
- Enjoy great visibility with the help of smaller cab pillars, larger windows, the standard parallel roof wiper and washer, and a flat engine hood design.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Rearview and sideview cameras are standard. Upgrade to 360° visibility and you'll easily visualize objects and personnel around the excavator in a single view.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.

# Cat® 340 Long Reach Hydraulic Excavator

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
<b>CAB</b>					
ROPS, standard sound suppression	✓				
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓				
Heated seat with air-adjustable suspension	✓				
<b>ENGINE</b>					
Cold start block heaters		✓			
Three selectable modes: Power, Smart, Eco	✓				
Automatic engine speed control	✓				
2300 m (7,546 ft) altitude capability	✓				
52° C (126° F) high-ambient cooling	✓				
Automatic reverse fan		✓			
-18° C (0° F) cold start capability	✓				
-32° C (-25° F) cold start capability		✓			
Double element air filter with integrated precleaner	✓				
Remote disable	✓				
Biodiesel capability up to B20	✓				
<b>HYDRAULIC SYSTEM</b>					
SmartBoom™		✓			
Boom and stick regeneration circuit	✓				
Electronic main control valve	✓				
Heavy lift mode	✓				
Automatic hydraulic oil warm up	✓				
Reverse swing damping valve	✓				
Automatic swing parking brake	✓				
High performance hydraulic return filter	✓				
Two speed travel	✓				
Bio hydraulic oil capability	✓				
Combined two-way auxiliary circuit with direct return		✓			
Medium-pressure auxiliary circuit		✓			
Cooling circuit		✓			
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓			
<b>UNDERCARRIAGE AND STRUCTURES</b>					
HD High Wide undercarriage	✓				
Towing eye on base frame	✓				
10.35 mt (22,817 lb) counterweight	✓				
600 mm (24") HD triple grouser track shoes		✓			
700 mm (28") triple grouser track shoes		✓			
850 mm (33") triple grouser track shoes		✓			
<b>BOOM AND STICK</b>					
10.6 m (34'9") LRE boom			✓		
7.1 m (23'4") LRE stick			✓		
<b>ELECTRICAL SYSTEM</b>					
Maintenance-free 1,000 CCA batteries (×2)			✓		
Centralized electrical disconnect switch			✓		
LED chassis light			✓		
<b>CAT CONNECT TECHNOLOGY</b>					
Cat Product Link			✓		
Cat GRADE with 2D			✓		
Cat GRADE with Advanced 2D					✓
Cat GRADE with 3D					✓
Cat GRADE with Assist			✓		
Cat PAYLOAD			✓		
2D E-Fence			✓		
<b>SERVICE AND MAINTENANCE</b>					
Grouped location of engine oil and fuel filters			✓		
Scheduled Oil Sampling (S-O-S) ports			✓		
Preventative maintenance ready (QuickEvac™)					✓
Electric refueling pump with automatic shutoff					✓
<b>SAFETY AND SECURITY</b>					
Caterpillar One Key security system			✓		
Lockable external tool/storage box			✓		
Lockable door, fuel, and hydraulic tank locks			✓		
Lockable fuel drain compartment			✓		
Service platform with anti-skid plate and recessed bolts			✓		
RH handrail and hand hold (ISO 2867:2011 compliant)			✓		
Signaling/warning horn			✓		
Ground-level secondary engine shutoff switch			✓		
Rear and sideview cameras	✓ <sup>1</sup>			✓ <sup>2</sup>	
Boom lowering check valve	✓ <sup>1</sup>			✓ <sup>2</sup>	
Stick lowering check valve	✓ <sup>1</sup>			✓ <sup>2</sup>	
360° visibility					✓

<sup>1</sup>Europe only.

<sup>2</sup>North America only.

# Cat® 340 Long Reach Hydraulic Excavator

## Technical Specifications

### Engine

Engine Model	C9.3B	
Net Power – ISO 9249/SAE J1349	232 kW	311 hp
Gross Power – ISO 14396	234 kW	314 hp
Engine rpm		
Operation	1,550 rpm	
Travel	1,800 rpm	
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in <sup>3</sup>

### Hydraulic System

Main System – Maximum Flow – Implement	558 L/min (279 × 2 pumps)	147 gal/min (74 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	29 400 kPa	4,264 psi

### Swing Mechanism

Swing Speed	8.75 rpm	
Maximum Swing Torque	144 kN·m	106,228 lbf·ft

### Weights

Operating Weight	43 900 kg	96,700 lb
• HD High Wide undercarriage, LRE boom, LRE7.1B1 (23'4") stick, GD 0.93 m <sup>3</sup> (1.22 yd <sup>3</sup> ) bucket, 850 mm (33") triple grouser shoes, 10.35 mt (22,817 lb) counterweight.		

### Service Refill Capacities

Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank (including suction pipe)	161 L	42.5 gal
DEF Tank	80 L	21.1 gal

### Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant, which has a CO<sub>2</sub> equivalent of 1.430 metric tonnes.

### Dimensions

<b>Boom</b>	<b>LRE Boom 10.6 m (34'9")</b>	
<b>Stick</b>	<b>LRE Stick LRE7.1B1 (23'4")</b>	
<b>Bucket</b>	<b>GD 0.93 m<sup>3</sup> (1.22 yd<sup>3</sup>)</b>	
Shipping Height (top of cab)	3400 mm	11.2 ft
Handrail Height	3390 mm	11.1 ft
Shipping Length	15 310 mm	50.2 ft
Tail Swing Radius	3530 mm	11.6 ft
Counterweight Clearance	1470 mm	4.8 ft
Ground Clearance	720 mm	2.4 ft
Track Length	5030 mm	16.5 ft
Track Length to Center of Rollers	4040 mm	13.3 ft
Track Gauge*	2930 mm	9.6 ft
Transport Width – 600 mm (24") Shoes*	3670 mm	12.0 ft
*HD High Wide undercarriage		

### Working Ranges and Forces

<b>Boom</b>	<b>LRE Boom 10.6 m (34'9")</b>	
<b>Stick</b>	<b>LRE Stick LRE7.1B1 (23'4")</b>	
<b>Bucket</b>	<b>GD 0.93 m<sup>3</sup> (1.22 yd<sup>3</sup>)</b>	
Maximum Digging Depth	13 050 mm	42.8 ft
Maximum Reach at Ground Level	18 080 mm	59.3 ft
Maximum Cutting Height	15 620 mm	51.2 ft
Maximum Loading Height	12 770 mm	41.9 ft
Minimum Loading Height	3210 mm	10.5 ft
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	12 960 mm	42.5 ft
Maximum Vertical Wall Digging Depth	10 660 mm	35.0 ft
Bucket Digging Force (SAE)	125 kN	28,020 lbf
Bucket Digging Force (ISO)	141 kN	31,590 lbf
Stick Digging Force (SAE)	91 kN	20,470 lbf
Stick Digging Force (ISO)	92 kN	20,750 lbf

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