

# Cat® 390F L

*Hydraulic Excavator* 2017

The 390F 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 C18 ACERT™ engine meets U.S. EPA Tier 4 Final emission standards.
- Exclusive Cat® Adaptive Control System (ACS) valve enables the machine to consume up to 29%\* less fuel than the standard 390D L, while delivering the same high level of production.
- The emissions technology is transparent no action required from the operator and no stopping for regeneration.
- 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® 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  $S \cdot O \cdot S^{\text{SM}}$  ports and pressure diagnostic taps help prevent maintenance downtime.

#### Comfort

- The cab is more comfortable and 3 dB(A) guieter than 390D L.
- 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 backed with a three year, 10,000 hour warranty.
- 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.
- Large serrated steps, extended hand and guard rails, and anti-skid plating will help you get in and around the machine.



<sup>\*</sup>Product Link™ field results.

# Cat® 390F L Hydraulic Excavator

| Engine                | e             |                         |  |
|-----------------------|---------------|-------------------------|--|
| Engine Model          | Cat C18 ACERT |                         |  |
| Net Power – SAE J1349 | 391 kW        | 524 hp/532 PS           |  |
| Bore                  | 145 mm        | 5.7 in                  |  |
| Stroke                | 183 mm        | 7.2 in                  |  |
| Displacement          | 18.1 L        | 1,104.5 in <sup>3</sup> |  |

| Hydraulic System                   |            |              |
|------------------------------------|------------|--------------|
| Main System – Maximum Flow (total) | 952 L/min  | 251 gal/min  |
| Maximum Flow – Travel              | 1064 L/min | 281 gal/min  |
| Maximum Pressure – Equipment       | 35 000 kPa | 5,076 psi    |
| Maximum Pressure – Travel          | 35 000 kPa | 5,076 psi    |
| Maximum Pressure – Swing           | 35 000 kPa | 5,076 psi    |
| Pilot System – Maximum Flow        | 67 L/min   | 17.7 gal/min |
| Pilot System – Maximum Pressure    | 4400 kPa   | 638 psi      |

| Drive                |          |             |
|----------------------|----------|-------------|
| Maximum Travel Speed | 4.5 km/h | 2.8 mph     |
| Maximum Drawbar Pull | 590 kN   | 132,637 lbf |

| Machine Weight  |           |            |
|---|-----------|------------|
| Operating Weight*   | 87 400 kg | 192,680 lb |
| *Reach 10 m (32'10") boom, R4.4m (14'5") stick, 3.9 m³ (5.1 yd³) bucket and 650 mm (26") shoes. |           |            |

| Swing        |          |                |
|--------------|----------|----------------|
| Swing Speed  | 6.2 rpm  |                |
| Swing Torque | 260 kN⋅m | 191,766 lbf-ft |

| Service Refill Capacities         |        |         |
|-----------------------------------|--------|---------|
| Fuel Tank Capacity                | 1240 L | 328 gal |
| Cooling System                    | 74 L   | 20 gal  |
| Engine Oil                        | 60 L   | 16 gal  |
| Swing Drive (each)                | 19 L   | 5.0 gal |
| Final Drive (each)                | 21 L   | 5.5 gal |
| Hydraulic System (including tank) | 997 L  | 263 gal |
| Hydraulic Tank                    | 813 L  | 215 gal |
| DEF Tank                          | 48 L   | 13 gal  |

| Sound Performance             |           |  |
|-------------------------------|-----------|--|
| Exterior – ISO 6395           | 109 dB(A) |  |
| Operator – SAE J1166/ISO 6396 | 74 dB(A)  |  |

| Dimensions                             |                            |        |
|--|----------------------------|--------|
| Boom Option                            | Reach Boom 10.0 m (32'10") |        |
| Stick Option                           | R4.4m (14'5")              |        |
| Shipping Height                        | 5070 mm                    | 16'8"  |
| Shipping Length                        | 16 330 mm                  | 53'7"  |
| Tail Swing Radius                      | 4700 mm                    | 15'5"  |
| Length to Center of Rollers            | 5120 mm                    | 16'10" |
| Track Length                           | 6358 mm                    | 20'10" |
| Ground Clearance                       | 900 mm                     | 2'11"  |
| Track Gauge                            | 2750 mm                    | 9'0"   |
| Transport Width – 650 mm (24 in) Shoes | 4160 mm                    | 13'8"  |
| Transport Width – 900 mm (35 in) Shoes | 4410 mm                    | 14'6"  |
| Cab Height                             | 3670 mm                    | 12'0"  |
| Counterweight Clearance                | 1640 mm                    | 5'5"   |

| Working Ranges                                       |                            |       |
|--|----------------------------|-------|
| Boom Option  | Reach Boom 10.0 m (32'10") |       |
| Stick Option   | R4.4m (14'5")              |       |
| Maximum Digging Depth                                | 10 700 mm                  | 35'1" |
| Maximum Reach at Ground Level                        | 16 230 mm                  | 53'3" |
| Maximum Cutting Height                               | 14 750 mm                  | 48'5" |
| Maximum Loading Height                               | 10 530 mm                  | 34'7" |
| Minimum Loading Height                               | 4420 mm                    | 14'6" |
| Maximum Depth Cut for 2440 mm (8'0")<br>Level Bottom | 10 590 mm                  | 34'9" |
| Maximum Vertical Wall Digging Depth                  | 5730 mm                    | 18'9" |

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