

# **Cat**<sup>®</sup> 304

# MINI EXCAVATOR

#### FEATURES:

The Cat<sup>®</sup> 304 Mini Excavator delivers power and performance in a compact size to help you work in a wide range of applications.

#### **ALL DAY COMFORT**

Choose either a canopy (not available in some regions) or a sealed and pressurized cab which can be equipped with air conditioning, adjustable wrist rests, and a suspension seat to help keep you working comfortably all day long.

#### **EASY TO OPERATE**

 Controls are easy to use and the intuitive Next Generation LCD monitor provides easy to read machine information. An advanced touchscreen monitor can also be equipped as an upgrade option.

#### STICK STEER TRAVEL MODE

Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls to move the machine and to operate the blade. The benefit of less effort and improved control is in your hands!

#### **BIG PERFORMANCE IN A SMALL MACHINE**

Strong lift and dig performance helps you get the job done faster. The reduced radius tail swing design provides exceptional stability and performance. With a maximum width of 1700 mm (67 in), the 304 can access those hard to get into areas. Dig-to-blade and dozer blade float features allow for easy cleanup. An angle blade is also an option for finished grading and easier backfilling applications.

# SAFETY ON THE JOB SITE

Your safety is our top priority. The Cat mini excavator is designed to help keep you safe on the job. Courtesy work lights and a fluorescent retractable seat belt with optional seat belt reminder system are just a couple of the safety features we've built into the machine.

#### SIMPLE SERVICE FOR LESS DOWNTIME

 Maintenance is quick and easy on the Cat mini excavator. Routine check points are easy to access at ground level through the side doors.

#### LOWER OPERATING COSTS

 Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat mini excavator was designed with reducing your operating costs in mind.

#### **UNMATCHED DEALER SUPPORT**

 Your Cat dealer is here to help you reach your business goals.
 From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.



# **Specifications**

#### Engine

| <u></u>               |            |                     |
|-----------------------|------------|---------------------|
| Engine Model          | C1.7 Turbo |                     |
| Net Power             |            |                     |
| ISO 9249, 80/1269/EEC | 33.6 kW    | 45.0 hp             |
| Engine Power          |            |                     |
| ISO 14396             | 36.1 kW    | 48.4 hp             |
| Bore                  | 84.0 mm    | 3.3 in              |
| Stroke                | 100.0 mm   | 3.9 in              |
| Displacement          | 1.662 L    | 101 in <sup>3</sup> |
|                       |            |                     |

• Meets U.S. EPA Tier 4 Final and EU Stage V emissions standards.

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,400 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.

#### Weights

| Minimum Operating Weight with Canopy*  | 3925 kg | 8,655 lb |  |
|--|---------|----------|--|
| Maximum Operating Weight with Canopy** | 4375 kg | 9,647 lb |  |
| Minimum Operating Weight with Cab*     | 4025 kg | 8,875 lb |  |
| Maximum Operating Weight with Cab**    | 4475 kg | 9,867 lb |  |

\*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, straight blade, no bucket and no extra counterweight.

\*\*Maximum Weight is based on steel tracks, operator, full fuel tank,

long stick, straight blade, extra counterweight and no bucket.

#### Weight Increase from Minimum Configuration

|               | <u> </u> |        |  |
|---------------|----------|--------|--|
| Counterweight | 225 kg   | 496 lb |  |
| Long Stick    | 30 kg    | 66 lb  |  |
| Steel Tracks  | 195 kg   | 430 lb |  |
| Angle Blade   | 110 kg   | 243 lb |  |
|               |          |        |  |

#### **Travel System**

| Travel Speed – High                 | 5.2 km/h   | 3.2 mph   |
|-------------------------------------|------------|-----------|
| Travel Speed – Low                  | 3.5 km/h   | 2.2 mph   |
| Maximum Traction Force – High Speed | 19 kN      | 4,271 lbf |
| Maximum Traction Force – Low Speed  | 32.6 kN    | 7,329 lbf |
| Ground Pressure – Minimum Weight    | 28.7 kPa   | 4.2 psi   |
| Ground Pressure – Maximum Weight    | 33.8 kPa   | 4.9 psi   |
| Gradeability (maximum)              | 30 degrees | -         |

#### **Service Refill Capacities**

| Cooling System   | 11.0 L | 2.9 gal  |
|------------------|--------|----------|
| Engine Oil       | 6.0 L  | 1.6 gal  |
| Fuel Tank        | 64.0 L | 17.0 gal |
| Hydraulic Tank   | 52.0 L | 14.0 gal |
| Hydraulic System | 65.0 L | 17.0 gal |

#### Hydraulic System

| Load Sensing Hydraulics with Variable Dis | splacement Pis | ton Pump    |
|---|----------------|-------------|
| Pump Flow @ 2,400 rpm                     | 96 L/min       | 25 gal/min  |
| Operating Pressure – Equipment            | 245 bar        | 3,553 psi   |
| Operating Pressure – Travel               | 245 bar        | 3,553 psi   |
| Operating Pressure – Swing                | 180 bar        | 2,611 psi   |
| Auxiliary Circuit – Primary               |                |             |
| Flow*                                     | 65 L/min       | 21 gal/min  |
| Pressure*                                 | 245 bar        | 3,553 psi   |
| Auxiliary Circuit – Secondary             |                |             |
| Flow*                                     | 28 L/min       | 7.0 gal/min |
| Pressure*                                 | 245 bar        | 3,553 psi   |
| Digging Force – Stick (standard)          | 21.0 kN        | 4,721 lbf   |
| Digging Force – Stick (long)              | 19.2 kN        | 4,316 lbf   |
| Digging Force – Bucket                    | 38.2 kN        | 8,588 lbf   |
|   |                |             |

\*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

#### Swing System

| Machine Swing Speed | 9.0 rpm    |
|---------------------|------------|
| Boom Swing – Left   | 78 Degrees |
| Boom Swing – Right  | 50 Degrees |

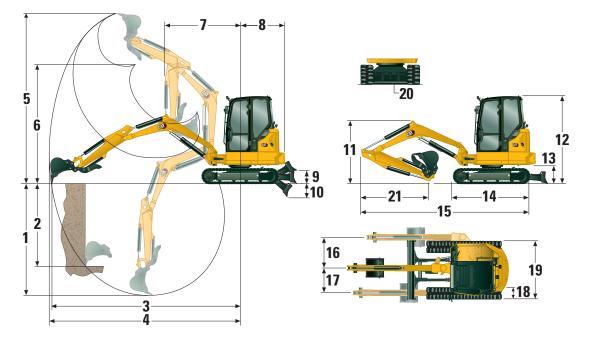
#### Blade

| Width (Straight)    | 1700 mm    | 66.9 in |
|---------------------|------------|---------|
| Height (Straight)   | 360 mm     | 14.2 in |
| Width (Angle)       | 1700 mm    | 66.9 in |
| Height (Angle)      | 360 mm     | 14.2 in |
| Angle Blade – Left  | 25 Degrees |         |
| Angle Blade – Right | 25 Degrees |         |
|                     |            |         |

#### **Certification – Cab and Canopy**

| Roll Over Protective Structure (ROPS) | ISO 12117-2:2008       |
|---------------------------------------|------------------------|
| Top Guard                             | ISO 10262:1998 Level I |

# Specifications (continued)



# Dimensions

|                                     | Standard Stick     | Long Stick         |
|-------------------------------------|--------------------|--------------------|
| 1 Dig Depth                         | 3210 mm (126.4 in) | 3510 mm (138.2 in) |
| 2 Vertical Wall                     | 2395 mm (94.3 in)  | 2535 mm (99.8 in)  |
| 3 Maximum Reach at Ground Level     | 5200 mm (204.7 in) | 5445 mm (214.4 in) |
| 4 Maximum Reach                     | 5330 mm (209.8 in) | 5570 mm (219.3 in) |
| 5 Maximum Dig Height                | 5040 mm (198.4 in) | 5125 mm (201.8 in) |
| 6 Maximum Dump Clearance            | 3645 mm (143.5 in) | 3740 mm (147.2 in) |
| 7 Boom in Reach                     | 2255 mm (88.8 in)  | 2340 mm (92.1 in)  |
| 8 Tail Swing                        |                    |                    |
| without Counterweight               | 1205 mm (47.4 in)  | 1205 mm (47.4 in)  |
| with Counterweight                  | 1300 mm (51.2 in)  | 1300 mm (51.2 in)  |
| 9 Maximum Blade Height              | 420 mm (16.5 in)   | 420 mm (16.5 in)   |
| 10 Maximum Blade Depth              | 475 mm (18.7 in)   | 475 mm (18.7 in)   |
| 11 Boom Height in Shipping Position | 1620 mm (63.8 in)  | 1910 mm (75.2 in)  |
| 12 Overall Shipping Height          | 2540 mm (100.0 in) | 2540 mm (100.0 in) |
| 13 Swing Bearing Height             | 557 mm (21.9 in)   | 557 mm (21.9 in)   |
| 14 Overall Undercarriage Length     | 2210 mm (87.0 in)  | 2210 mm (87.0 in)  |
| 15 Overall Shipping Length†         | 4950 mm (194.9 in) | 4950 mm (194.9 in) |
| 16 Boom Swing Right                 | 730 mm (28.7 in)   | 730 mm (28.7 in)   |
| 17 Boom Swing Left                  | 530 mm (20.9 in)   | 530 mm (20.9 in)   |
| 18 Track Belt/Shoe Width            | 350 mm (13.8 in)   | 350 mm (13.8 in)   |
| 19 Track Width                      | 1700 mm (66.9 in)  | 1700 mm (66.9 in)  |
| 20 Ground Clearance                 | 305 mm (12.0 in)   | 305 mm (12.0 in)   |
| 21 Stick Length                     | 1395 mm (54.9 in)  | 1695 mm (66.7 in)  |
|                                     |                    |                    |

†Overall Shipping Length depends on blade position during shipment.

# **304 Mini Excavator**

#### Cab

|                       | Lift Capacities – |            | Lift Poi          | int Radius – 3 m (9.8 ft) Lift Point Radius – 4.5 m (14.8 ft) Lift Point Radius (N |                  |                   |                | us (Maximum)   |                  |                  |                  |                |
|-----------------------|-------------------|------------|-------------------|--|------------------|-------------------|----------------|----------------|------------------|------------------|------------------|----------------|
| Minimum Configuration |                   | Over       | Front             |  | Over             | Front             |                | Over           | Front            |                  | m                |                |
|                       | Lift Point Height |            | Blade Down        | Blade Up   | Over Side        | Blade Down        | Blade Up       | Over Side      | Blade Down       | Blade Up         | Over Side        | (ft)           |
| 3 m                   | Standard Stick    | kg<br>(lb) | *941<br>(*2,075)  | *941<br>(*2,075)   | *941<br>(*2,075) |                   |                |                | *698<br>(*1,539) | *698<br>(*1,539) | *698<br>(*1,539) | 4.09<br>(13.4) |
| (9.8 ft)              | Long Stick        | kg<br>(lb) |                   |  |                  |                   |                |                | *699<br>(*1,541) | *699<br>(*1,541) | *699<br>(*1,541) | 4.37<br>(14.3) |
| 1.5 m                 | Standard Stick    | kg<br>(lb) | *1522<br>(*3,356) | 1213<br>(2,675)  | 1031<br>(2,273)  | *1040<br>(*2,293) | 662<br>(1,460) | 573<br>(1,263) | *698<br>(*1,539) | *698<br>(*1,539) | 555<br>(1,224)   | 4.59<br>(15.1) |
| (4.9 ft)              | Long Stick        | kg<br>(lb) | *1333<br>(*2,939) | *1333<br>(*2,939)  | 1029<br>(2,269)  | *1008<br>(*2,223) | 652<br>(1,438) | 562<br>(1,239) | *711<br>(*1,568) | 582<br>(1,283)   | 502<br>(1,107)   | 4.84<br>(15.9) |
| 0 m<br>(0 ft)         | Standard Stick    | kg<br>(lb) | *2006<br>(*4,423) | 1148<br>(2,531)  | 969<br>(2,137)   |                   |                |                | *846<br>(*1,865) | 656<br>(1,446)   | 566<br>(1,248)   | 4.46<br>(14.6) |
|                       | Long Stick        | kg<br>(lb) | *1933<br>(*4,262) | 1128<br>(2,487)  | 950<br>(2,095)   | *1142<br>(*2,518) | 630<br>(1,389) | 541<br>(1,193) | *861<br>(*1,899) | 591<br>(1,303)   | 508<br>(1,120)   | 4.71<br>(15.5) |

Minimum Weight includes cab, rubber tracks, no counterweight, operator, full fuel tank and straight blade.

| Lift Capacities –     |                   |            | Lift Poi          | nt Radius – 3 m   | n (9.8 ft) Lift Point Radius – 4.5 m (14.8 ft) Lift Point Radius |                   |                |                |                  | s (Maximum)      |                  |                |
|-----------------------|-------------------|------------|-------------------|-------------------|--|-------------------|----------------|----------------|------------------|------------------|------------------|----------------|
| Maximum Configuration |                   |            | Over              | Front             |  | Over Front        |                | Over           | Front            |                  | m                |                |
|                       | Lift Point Height |            | Blade Down        | Blade Up          | Over Side  | Blade Down        | Blade Up       | Over Side      | Blade Down       | Blade Up         | Over Side        | (ft)           |
| 3 m                   | Standard Stick    | kg<br>(lb) | *941<br>(*2,075)  | *941<br>(*2,075)  | *941<br>(*2,075)   |                   |                |                | *698<br>(*1,539) | *698<br>(*1,539) | *698<br>(*1,539) | 4.09<br>(13.4) |
| (9.8 ft)              | Long Stick        | kg<br>(lb) |                   |                   |  |                   |                |                | *699<br>(*1,541) | *699<br>(*1,541) | *699<br>(*1,541) | 4.37<br>(14.3) |
| 1.5 m                 | Standard Stick    | kg<br>(lb) | *1522<br>(*3,356) | *1522<br>(*3,356) | 1266<br>(2,792)  | *1040<br>(*2,293) | 780<br>(1,720) | 714<br>(1,574) | *698<br>(*1,539) | *698<br>(*1,539) | *698<br>(*1,539) | 4.59<br>(15.1) |
| (4.9 ft)              | Long Stick        | kg<br>(lb) | *1333<br>(*2,939) | *1333<br>(*2,939) | *1333<br>(*2,939)  | *1008<br>(*2,223) | 769<br>(1,696) | 703<br>(1,550) | *711<br>(*1,568) | *711<br>(*1,568) | *711<br>(*1,568) | 4.84<br>(15.9) |
| 0 m                   | Standard Stick    | kg<br>(lb) | *2006<br>(*4,423) | 1349<br>(2,975)   | 1204<br>(2,655)  |                   |                |                | *846<br>(*1,865) | *846<br>(*1,865) | 709<br>(1,563)   | 4.46<br>(14.6) |
| (0 ft)                | Long Stick        | kg<br>(lb) | *1933<br>(*4,262) | 1329<br>(2,930)   | 1185<br>(2,613)  | *1142<br>(*2,518) | 748<br>(1,649) | 682<br>(1,504) | *861<br>(*1,899) | 702<br>(1,548)   | 641<br>(1,413)   | 4.71<br>(15.5) |

Maximum Weight includes cab, steel tracks, counterweight, operator, full fuel tank and angle blade.

### Canopy

|          | Lift Capacities –     |            |                   | Lift Point Radius – 3 m (9.8 ft) |                  |                   | Lift Point Radius – 4.5 m (14.8 ft) |                |                  | Lift Point Radius (Maximum) |                  |                |  |
|----------|-----------------------|------------|-------------------|----------------------------------|------------------|-------------------|-------------------------------------|----------------|------------------|-----------------------------|------------------|----------------|--|
|          | Minimum Configuration |            |                   | Over Front                       |                  | Over Front        |                                     |                | Over Front       |                             |                  | m              |  |
|          | Lift Point Height     |            | Blade Down        | Blade Up                         | Over Side        | Blade Down        | Blade Up                            | Over Side      | Blade Down       | Blade Up                    | Over Side        | (ft)           |  |
| 3 m      | Standard Stick        | kg<br>(lb) | *941<br>(*2,075)  | *941<br>(*2,075)                 | *941<br>(*2,075) |                   |                                     |                | *698<br>(*1,539) | *698<br>(*1,539)            | *698<br>(*1,539) | 4.09<br>(13.4) |  |
| (9.8 ft) | Long Stick            | kg<br>(lb) |                   |                                  |                  |                   |                                     |                | *699<br>(*1,541) | *699<br>(*1,541)            | 585<br>(1,290)   | 4.37<br>(14.3) |  |
| 1.5 m    | Standard Stick        | kg<br>(lb) | *1522<br>(*3,356) | 1176<br>(2,593)                  | 1000<br>(2,205)  | *1040<br>(*2,293) | 640<br>(1,411)                      | 555<br>(1,224) | *698<br>(*1,539) | *698<br>(*1,539)            | 537<br>(1,184)   | 4.59<br>(15.1) |  |
| (4.9 ft) | Long Stick            | kg<br>(lb) | *1333<br>(*2,939) | *1333<br>(*2,939)                | 999<br>(2,203)   | *1008<br>(*2,223) | 630<br>(1,389)                      | 544<br>(1,200) | *711<br>(*1,568) | 562<br>(1,239)              | 485<br>(1,069)   | 4.84<br>(15.9) |  |
| 0 m      | Standard Stick        | kg<br>(lb) | *2006<br>(*4,423) | 1111<br>(2,450)                  | 939<br>(2,070)   |                   |                                     |                | *846<br>(*1,865) | 634<br>(1,398)              | 548<br>(1,208)   | 4.46<br>(14.6) |  |
| (0 ft)   | Long Stick            | kg<br>(lb) | *1933<br>(*4,262) | 1091<br>(2,406)                  | 919<br>(2,026)   | *1142<br>(*2,518) | 608<br>(1,341)                      | 523<br>(1,153) | *861<br>(*1,899) | 570<br>(1,257)              | 490<br>(1,080)   | 4.71<br>(15.5) |  |

Minimum Weight includes canopy, rubber tracks, no counterweight, operator, full fuel tank and straight blade.

|          | Lift Capacities –     |            | Lift Point Radius – 3 m (9.8 ft) |                   |                   | Lift Point Radius – 4.5 m (14.8 ft) |                |                | Lift Point Radius (Maximum) |                  |                  |                |
|----------|-----------------------|------------|----------------------------------|-------------------|-------------------|-------------------------------------|----------------|----------------|-----------------------------|------------------|------------------|----------------|
| 1        | Maximum Configuration |            | Over Front                       |                   |                   | Over Front                          |                |                | Over Front                  |                  |                  | m              |
|          | Lift Point Height     |            | Blade Down                       | Blade Up          | Over Side         | Blade Down                          | Blade Up       | Over Side      | Blade Down                  | Blade Up         | Over Side        | (ft)           |
| 3 m      | Standard Stick        | kg<br>(lb) | *941<br>(*2,075)                 | *941<br>(*2,075)  | *941<br>(*2,075)  |                                     |                |                | *698<br>(*1,539)            | *698<br>(*1,539) | *698<br>(*1,539) | 4.09<br>(13.4) |
| (9.8 ft) | Long Stick            | kg<br>(lb) |                                  |                   |                   |                                     |                |                | *699<br>(*1,541)            | *699<br>(*1,541) | *699<br>(*1,541) | 4.37<br>(14.3) |
| 1.5 m    | Standard Stick        | kg<br>(Ib) | *1522<br>(*3,356)                | *1522<br>(*3,356) | 1235<br>(2,723)   | *1040<br>(*2,293)                   | 758<br>(1,671) | 696<br>(1,535) | *698<br>(*1,539)            | *698<br>(*1,539) | *698<br>(*1,539) | 4.59<br>(15.1) |
| (4.9 ft) | Long Stick            | kg<br>(lb) | *1333<br>(*2,939)                | *1333<br>(*2,939) | *1333<br>(*2,939) | *1008<br>(*2,223)                   | 748<br>(1,649) | 685<br>(1,510) | *711<br>(*1,568)            | *711<br>(*1,568) | *711<br>(*1,568) | 4.84<br>(15.9) |
| 0 m      | Standard Stick        | kg<br>(lb) | *2006<br>(*4,423)                | 1312<br>(2,893)   | 1174<br>(2,589)   |                                     |                |                | *846<br>(*1,865)            | *846<br>(*1,865) | 691<br>(1,524)   | 4.46<br>(14.6) |
| (0 ft)   | Long Stick            | kg<br>(lb) | *1933<br>(*4,262)                | 1292<br>(2,849)   | 1154<br>(2,545)   | *1142<br>(*2,518)                   | 726<br>(1,601) | 664<br>(1,464) | *861<br>(*1,899)            | 681<br>(1,502)   | 624<br>(1,376)   | 4.71<br>(15.5) |

Maximum Weight includes canopy, steel tracks, counterweight, operator, full fuel tank and angle blade.

\*The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567:2007 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. The excavator bucket weight is not included on this chart.

# **Standard and Optional Equipment**

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

|   | Standard     | Optional     |
|---|--------------|--------------|
| ENGINE  |              |              |
| Cat <sup>®</sup> C1.7 Turbo Engine (U.S. EPA Tier 4 Final/<br>EU Stage V) | $\checkmark$ |              |
| Automatic Engine Idle   | $\checkmark$ |              |
| Automatic Engine Shutdown   | $\checkmark$ |              |
| Automatic Two Speed Travel  | √            |              |
| Fuel Water Separator  | ✓            |              |
| Power on Demand (not available in all regions)                            | $\checkmark$ |              |
| Variable Displacement Piston Pump   | √            |              |
| Load Sensing/Flow Sharing Hydraulics                                      | ✓            |              |
| HYDRAULICS  |              |              |
| Smart Tech Electronic Pump  | $\checkmark$ |              |
| Accumulator   | $\checkmark$ |              |
| Automatic Swing Brake   | $\checkmark$ |              |
| Auxiliary Hydraulic Lines   | $\checkmark$ |              |
| One and Two Way Auxiliary Flow  | $\checkmark$ |              |
| Continuous Auxiliary Flow   | $\checkmark$ |              |
| Auxiliary Line Quick Disconnects  | $\checkmark$ |              |
| OPERATOR ENVIRONMENT  |              |              |
| Canopy or Cab (Canopy not available in some regions)                      | √            |              |
| Cab with Air Conditioning   |              | $\checkmark$ |
| Cab with Heater   |              | $\checkmark$ |
| Stick Steer Mode  | $\checkmark$ |              |
| Travel Cruise Control   | ✓            |              |
| Control Pattern Changer (optional in some regions)                        | √            |              |
| Adjustable Wrist Rests  | $\checkmark$ |              |
| Washable Floor Mat  | $\checkmark$ |              |
| Travel Pedals and Hand Levers   | $\checkmark$ |              |
| No Travel Pedals and Hand Levers<br>(optional in some regions)            |              | ~            |
| Machine Security  | ✓            |              |
| Standard Key with Pass Code   | $\checkmark$ |              |
| Push to Start with Key Fob/Pass Code                                      |              | $\checkmark$ |
| Fabric Suspension Seat (Cab only)   | $\checkmark$ |              |
| Vinyl Suspension Seat (Canopy only)                                       | $\checkmark$ |              |

|  | Standard     | Optional     |
|--|--------------|--------------|
| <b>OPERATOR ENVIRONMENT</b> (continued)                                      |              |              |
| Hydraulic Lockout – All Controls   | $\checkmark$ |              |
| Retractable High Visibility Seat Belt<br>(75 mm/3 in)                        | $\checkmark$ |              |
| Seat Belt Reminder System  |              | $\checkmark$ |
| Coat Hook  | $\checkmark$ |              |
| Cup Holder   | $\checkmark$ |              |
| Storage Pocket   | $\checkmark$ |              |
| Skylight   | $\checkmark$ |              |
| Mounting Bosses for Front  | $\checkmark$ |              |
| Signaling/Warning Horn   | $\checkmark$ |              |
| Interior Light (Cab only)  | $\checkmark$ |              |
| Boom Light, Halogen (not available in all regions)                           | √            |              |
| LED Front Lights   | $\checkmark$ |              |
| LED Front and Rear Lights  |              | $\checkmark$ |
| LED Boom Light   | $\checkmark$ |              |
| Utility Space for Mobile Phone   | $\checkmark$ |              |
| Mirrors, Left, Right and Rear  |              | $\checkmark$ |
| Camera   |              | $\checkmark$ |
| Radio – Bluetooth®, Auxiliary, Microphone,<br>USB (charging only) (Cab only) |              | √            |
| Next Generation Color LCD Monitor (IP66)                                     | $\checkmark$ |              |
| – Fuel Level and Coolant Temperature Gauges                                  | $\checkmark$ |              |
| <ul> <li>Maintenance and Machine Monitoring</li> </ul>                       | $\checkmark$ |              |
| – Performance and Machine Adjustments  | $\checkmark$ |              |
| – Numeric Security Code  | $\checkmark$ |              |
| – Multiple Languages   | $\checkmark$ |              |
| – Hour Meter with Wake Up Switch   | $\checkmark$ |              |
| – Jog Dial (cab only)  | $\checkmark$ |              |
| Next Generation Advanced Monitor   |              | $\checkmark$ |
| – Touch Screen   |              | ✓            |
| – Site Reference System  |              | $\checkmark$ |
| <ul> <li>High Definition Camera Capable<br/>(IP68 and IP69K)</li> </ul>      |              | ~            |
| – Numeric Security Code  |              | $\checkmark$ |
| UNDERCARRIAGE  |              |              |
| Rubber Belt (350 mm/13.8 in)   | $\checkmark$ |              |
| Steel Track (350 mm/13.8 in)   |              | $\checkmark$ |
| Dozer Straight Blade   | ✓            |              |
| Dozer Blade Float  | ✓            |              |
| Angle Blade  |              | $\checkmark$ |
| Tie Downs on Track Frame   | $\checkmark$ |              |

(continued on next page)

# **Standard and Optional Equipment** (continued)

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

|  | Standard     | Optional     |
|--|--------------|--------------|
| BOOM, STICK AND LINKAGES   |              |              |
| One Piece Boom (2500 mm/98.4 in)                                       | $\checkmark$ |              |
| Standard Stick (1395 mm/54.9 in)                                       | $\checkmark$ |              |
| Long Stick (1695 mm/66.7 in)   |              | $\checkmark$ |
| Front Shovel Capable   | $\checkmark$ |              |
| Pin-On   | $\checkmark$ |              |
| Dual Lock Manual Coupler   |              | $\checkmark$ |
| Hydraulic Coupler  |              | $\checkmark$ |
| Thumb Ready  | $\checkmark$ |              |
| Certified Lifting Eye  | $\checkmark$ |              |
| Attachments including Couplers, Thumbs,<br>Buckets, Augers and Hammers |              | $\checkmark$ |
| 2nd Auxiliary Hydraulic Lines  |              | $\checkmark$ |
| Bucket Divert Lines  |              | $\checkmark$ |
| Boom Lowering Control Valve<br>(Europe Standard)                       |              | ~            |
| Stick Lowering Control Valve<br>(Europe Standard)                      |              | ~            |
| Hydraulic Quick Coupler Lines  | $\checkmark$ |              |
| ELECTRICAL   |              |              |
| 12 Volt Battery  | $\checkmark$ |              |
| Software (machine and monitor)   | $\checkmark$ |              |
| Maintenance Free Battery   | $\checkmark$ |              |
| Lock Out/Tag Out Battery Disconnect                                    | $\checkmark$ |              |
| 12 Volt Power Socket   | $\checkmark$ |              |
| Product Link™ PL243 (regulations apply)                                |              | √            |
| Product Link PLE643 (regulations apply)                                |              | √            |
| Cat Grade Advanced 2D  |              | √            |
| Cat Grade 3D   |              | $\checkmark$ |
| Travel Alarm (optional in some regions)                                | $\checkmark$ |              |

|   | Standard     | Optional     |
|---|--------------|--------------|
| GUARDING  |              |              |
| Roll Over Protective Structure (ROPS)<br>ISO 12117-2:2008 | $\checkmark$ |              |
| Top Guard ISO 10262:1998 (Level I)                        | $\checkmark$ |              |
| Top Guard ISO 10262:1998 (Level II)                       |              | √            |
| Front Guard (Mesh) ISO 10262:1998<br>(Level I)            |              | $\checkmark$ |
| Front Guard (Heavy Duty) ISO 10262:1998<br>(Level II)     |              | $\checkmark$ |
| OTHER   |              |              |
| Eco Drain   | $\checkmark$ |              |
| Bio Oil Capable   |              | $\checkmark$ |
| Water Jacket Heater                                       |              | $\checkmark$ |
| Counterweight (225 kg/496 lb)                             |              | ✓            |

# **304 Environmental Declaration**

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

## Engine

- The Cat<sup>®</sup> C1.7 Turbo engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

- \*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- \*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

# **Air Conditioning System**

• The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.0 kg (2.2 lb) of refrigerant which has a  $CO_2$  equivalent of 1.430 metric tonnes (1.576 tons).

#### **Paint**

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
- Barium < 0.01%
- Cadmium < 0.01%
- Chromium < 0.01%
- Lead < 0.01%

# **Sound Performance**

Operator Sound Pressure 76 dB(A) (ISO 6396:2008)\*

Exterior Sound Power Level 97 dB(A) (ISO 6395:2008)\*\*

- \*The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed.
- \*\*The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

# **Oils and Fluids**

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## **Features and Technology**

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Advanced hydraulic systems balance power and efficiency
- Power On Demand provides full time efficiency and power when you need it, and is transparent to the operator
- Auto idle and auto engine shutdown
- Extended maintenance intervals reduce fluid and filter consumption
- Remote Flash and Remote Troubleshoot (if equipped)
- Cat Grade Advanced 2D and 3D improves operator efficiency minimizing fuel consumption (if equipped)

#### Recycling

• The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

| Material Type            | Weight Percentage |
|--------------------------|-------------------|
| Steel                    | 65.52%            |
| Iron                     | 21.19%            |
| Rubber                   | 3.50%             |
| Mixed Metal              | 2.20%             |
| Other                    | 1.89%             |
| Nonferrous Metal         | 1.81%             |
| Plastic                  | 1.55%             |
| Fluid                    | 1.47%             |
| Mixed-Metal and Nonmetal | 0.85%             |
| Mixed Nonmetallic        | 0.01%             |
| Uncategorized            | 0.00%             |
| Total                    | 100.00%           |

• A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following values in the table may vary.

Recyclability - 96%

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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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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