

# 317 HYDRAULIC EXCAVATOR

The 317 Hydraulic Excavator boosts productivity on your jobsite. Standard, easy-to-use Cat® technologies, performance upgrades, and low fuel and maintenance costs allow you to move material all day with speed and precision while keeping more money in your pocket.



#### HIGH PERFORMANCE

A Cat C3.6 engine, powerful hydraulics, and excellent machine stability give you the power to move material with speed and precision.

## LOW MAINTENANCE COSTS

Do more work with extended and more synchronized maintenance intervals. Reduce your cost and service time compared to our previous series.

## MORE OPERATOR EFFICIENCY

Increase your efficiency over traditional grade-checking methods with Cat technologies.

#### LATEST FEATURES



#### **Machine Setup Simplification**

- At the touch of fingertips and navigating user-friendly icons, the latest operator oriented User Interface (UI) maximizes uptime and gets crews to work without delay. From re-ordering work tool lists to creating new work tool combinations as needed, operators can quickly set up machines and easily access information.
- The interface allows operators to maintain accuracy and makes
  the most of every second of their shift. Adding the ability to input
  couplers and attachments into the system makes setting up
  work tool combinations highly efficient by significantly reducing
  calibration time. It also eliminates the need to measure up
  again when changing Cat work tool attachments and makes it
  manageable for a single person to check and adjust for bucket
  wear.

#### Cat® Grade 3D Ready

 The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. This option provides an easier upgrade path for customers who want to add Grade with 3D after their initial purchase. To activate, contact your Cat dealer to purchase the required 3D software licenses. Licenses can be installed remotely or manually loaded onto the machine.

#### Cat Payload and Advanced Payload\*

- Cat Payload provides operators with on-the-go weighing to help them hit load targets and avoid overloading, underloading, or misloading materials. Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing. Combine Payload with VisionLink® Productivity\*\* to analyze jobsites and individual assets for remote management of production targets and key metrics.
- \* Payload technologies are not legal for trade.
- \*\* VisionLink subscription required.

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 07H



- Increased breakout forces and hydraulic power increase productivity over the previous model.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Reduced fuel consumption over the previous model.
- Match your machine to the job with power modes. Let Smart
  mode automatically match engine and hydraulic power to working
  conditions. Power mode constantly provides maximum productivity,
  and Eco mode minimizes fuel consumption in less-demanding
  applications.
- Get higher production in demanding applications, easier penetration into piles, and faster cycle times with Cat Advansys™ bucket tips. Quickly change tips with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- The Cat C3.6 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Don't let the temperature stop you from working. The 317 has an optional cold-start capability of -25° C (-13° F).

## BOOST EFFICIENCY AND PRODUCTIVITY WITH CAT® TECHNOLOGIES



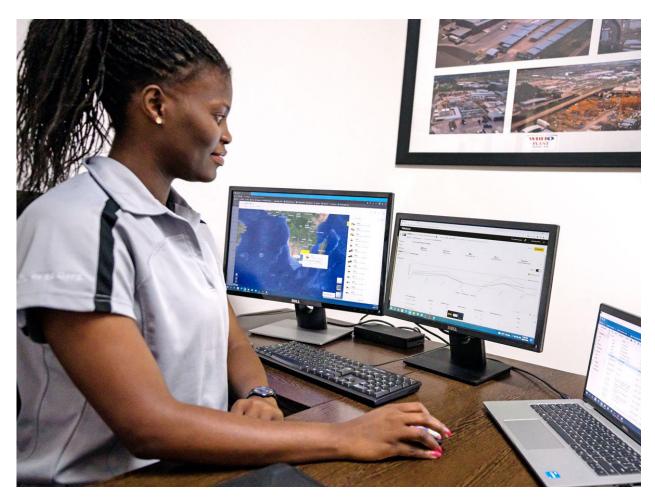
- The latest operator oriented User Interface (UI) has been designed to maximize uptime by allowing operators to easily reorder work tool lists and quickly create new work tool combinations. It also eliminates the need to measure up again when changing Cat® work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.
- Leverage standard Cat Grade with 2D system with indicate-only and laser capability to help boost productivity.
- The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. Activation requires the purchase of additional 3D software licenses.
- Want a 3D system to improve your digging results? Caterpillar's single antenna global navigation satellite system (GNSS) makes it easy by giving you visual and auditory guidance to grade. Plus, you can create and edit designs on the touchscreen monitor while you're on the job. If your application calls for a dual antenna system, it's easy to upgrade.
- Upgrade to our dual antenna GNSS for maximum grading efficiency.
  The system lets you create and edit designs on the touchscreen
  monitor while you're on the job, or you can have the plan design
  sent to the excavator to make your work easier. Plus, you get added
  benefits of avoidance zones, cut and fill mapping, lane guidance,
  and augmented reality along with advanced positioning capability.
- All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica.
- Standard Grade Assist helps you stay on grade simply and effortlessly – with single-lever digging.
- Keep the tracks on ground in lifting and hard digging with Boom Assist
- Set your desired bucket angle and let Bucket Assist automatically maintain the angle in sloping, leveling, fine grading, and trenching applications.
- 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.
- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material--with a bucket and thumb combination or grapple and clamshell attachments--and get a real-time weight estimate without swinging.\*
- Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing (E-Tickets).\*
- Combine Payload with VisionLink® and remotely manage your production targets.
- Optional Operator Coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.

<sup>\*</sup> Advanced Payload requires an additional software license (SEA). E-Ticket functionality requires a subscription to VisionLink® Productivity.

## TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- VisionLink provides actionable data insights for all assets –
  regardless of fleet size or equipment manufacturer.\* Review
  equipment data from your desktop or mobile device to maximize
  uptime and optimize assets. Dashboards provide information
  such as hours, miles, location, idle time, and fuel utilization.
  Make informed decisions that lower costs, simplify maintenance,
  and improve safety and security on your jobsite.
- VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacturer.\* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Cat Inspect is a mobile application that allows you to easily perform
  digital preventative maintenance (PM) checks, inspections, and
  daily walkarounds. Inspections can easily be integrated with other
  Cat data systems like VisionLink so you can keep a close eye on
  your fleet.
- Cat Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.

- Cat Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.
- The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The work tool recognition\*\* feature automatically adjusts machine settings based on the selected tool.
- \* Data field availability can vary by equipment manufacturer.
- \*\*\* Recognition feature available on select excavator models. Consult your Cat dealer for details.





- Increase operator productivity with a large cab.
- The Comfort cab is equipped with a mechanical suspension seat, while the Deluxe seat is heated and air adjustable.
- Get in and out of the cab easier using the tip-up left console.
- Advanced viscous mounts reduce cab vibration.
- 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, 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 the push of a button, a Bluetooth key fob, or the unique Operator ID function.
- Program your preferred power mode and joystick settings using your operator ID. The excavator will automatically remember your selections.
- Navigate quickly on the standard high-resolution touchscreen monitor or with the aid of the jog dial control.
- The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement.
- Save time and energy with work tool recognition. A simple shake
  of the attached tool confirms its identity ensuring all attachment
  settings are correct, so you can get to work quickly and efficiently.
- Not sure how a function works or how to maintain your machine?
   Simply access the operator's manual through the touchscreen monitor.
- Make moving the excavator much easier with Cat Stick Steer.
   Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.

- Make operating easier with the touch of a joystick button. Additional auxiliary relays allow you to power on or turn off a CB radio, beacon light, and even a dust suppression watering system without taking your hands off the joysticks.
- Tiltrotator attachments ours or other brands work seamlessly with Cat 2D Grade, Assist, Payload, and E-Fence. With no additional hardware required, all you have to do is simply select "Third Party Tiltrotator System Installation" in the monitor, do the calibration, and get to work.





- Do more work with extended and more synchronized maintenance intervals. The Cat 317 can reduce your cost and service time compared to our previous series.
- Quickly check and service your machine with all daily maintenance points accessible from ground level.
- Check the engine oil level quickly and safely from the ground. Fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Track your machine's filter life and maintenance intervals on the incab monitor.
- The latest 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.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with stepby-step service guidance along with parts needed so you don't experience any unnecessary downtime.
- Scheduled Oil Sampling (S·O·S<sup>SM</sup>) ports are located at ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.



- Access all daily maintenance points from ground level no need for you to climb on top of the machine.
- The standard rollover protective structure (ROPS) cab meets ISO 12117-2:2008 requirements.
- A ground-level shutoff switch stops all fuel to the engine and shuts down the machine when activated.
- A rearview and right-side-view camera are standard. Upgrade to 360° visibility to easily see objects and personnel around the excavator in a single view.
- The service platform design provides easy, safe, and quick access to the upper service platform. Prevent slipping with the anti-skid punch plate on the platform steps.
- Optional boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose power.
- Brightly colored seatbelts allow easy recognition of properly utilized safety restraints.
- Antennas have theft-prevention bolts; a special tool makes them easy to remove at the end of a shift.
- Cat 2D E-Fence restricts the front linkage from moving beyond operator-defined preset boundaries for the ceiling, floor, wall, swing, and cab. It helps operators avoid jobsite hazards such as traffic, keeps personnel safe, and helps you save on costly repairs, equipment downtime, and potential jobsite fines.
- Add optional inspection lighting to illuminate the engine, pump, battery, and cooling compartments, making service work more accessible.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.

#### **SUSTAINABILITY**

- The Cat C3.6 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- The 317 emits lower CO<sub>2</sub> emissions compared to the 316F.
- 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)\* or 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.
- Cat Grade technologies combine advanced guidance with optional automated machine control helping you reach grading targets while reducing fuel burn and greenhouse gas emissions by improving efficiency, jobsite productivity, and accuracy.
- Auto Engine Speed Control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat Payload for excavators provides on-the-go material weighing, which helps reduce fuel burn by improving loading efficiency, increasing jobsite productivity, and eliminating trips to the scale.
- Cat 2D E-Fence keeps the front linkage within a predefined work area to avoid hazards such as traffic – not only helping keep personnel safe but also helping you avoid repairs, downtime, and costly jobsite fines.
- Extended maintenance intervals not only reduce downtime, but also decrease the amount of fluid and filters that are replaced over the life of the machine.

- Cat VisionLink displays the CO<sub>2</sub> emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Cat Remote Flash minimizes downtime and maintenance time
  while keeping your asset running with maximum efficiency. Alerts
  for machine updates are sent virtually from your Cat dealer and
  updates can be deployed without a dealer technician needing to
  be on site.
- Cat Remote Troubleshoot decreases maintenance time and keeps your machine running with maximum efficiency by allowing your Cat dealer to virtually test the machine while working. Once a problem is identified, a technician can fix it the first time, saving time and money.
- \* 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.



## MORE THAN MACHINES

#### **BUILT AROUND YOUR SUCCESS**

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



#### **CUSTOMER VALUE AGREEMENTS**

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

#### **GENUINE CAT® PARTS**

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

#### **REPAIR OPTIONS**

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

#### **FINANCIAL SERVICES**

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



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**DOZERS** 

**SKID STEERS** 

**MATERIAL HANDLERS** 

**EXCAVATORS** 

WHEEL LOADERS

**TRACK LOADERS** 

#### INCREASE YOUR PRODUCTIVITY AND PROFIT

### WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

**BUCKETS** 



CW DEDICATED **COUPLERS** 



ATTACHMENT TRACKING MADE EASY

The Cat PL161 attachment locator is a Bluetooth device designed to let users know where their attachments are across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement.

**GRAPPLES** 



**TILTROTATOR** 



DO HARD-TO-REACH WORK

With 360° rotation and 40° side-to-side tilting action, a Cat tiltrotator will help you get complex work done faster. A new system upgrade from the factory allows the tool to work with Cat 2D Grade, Assist, Payload, and E-Fence. It includes factory-fit joysticks, but uses the standard cab monitor to display the tool and engage its SecureLock™ so you don't need to spend money on an extra monitor. It also works seamlessly with other brands with no additional hardware required. All you have to do is simply select "Third Party Tiltrotator System Installation" in the monitor, do the calibration, and get to work.

#### **PIN GRABBER COUPLERS**



**HYDRAULIC HAMMERS** 



#### PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

#### TECHNICAL SPECIFICATIONS

Enç	gine		
Net Power – ISO 9249	98.9 kW	133 hp	
Net Power – ISO 9249 (DIN)	134 hp (r	134 hp (metric)	
Engine Model	Cat® (	Cat® C3.6	
Engine Power – ISO 14396	100 kW	134 hp	
Engine Power – ISO 14396 (DIN)	136 hp (r	136 hp (metric)	
Bore	98 mm	4 in	
Stroke	120 mm	5 in	
Displacement	3.6 L	220 in <sup>3</sup>	
Biodiesel Capability	Up to	Up to B201	
Emissions	EU Stage V, c	Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

\*\*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)\* or 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.

Hydraulic System				
Main System – Maximum Flow	296 L/min (	296 L/min (78 gal/min)		
Maximum Pressure – Equipment	35 000 kPa	5,076 psi		
Maximum Pressure – Travel	35 000 kPa	5,076 psi		
Maximum Pressure – Swing	25 800 kPa	3,741 psi		
Swing Mechanism				
Swing Speed	8.7 r	8.7 r/min		
Maximum Swing Torque	64.6 kN⋅m	47,647 lbf-ft		
Weights				
Operating Weight	17 100 kg	37,800 lb		
Service Refill Capacities				
Fuel Tank Capacity	271 L	71.6 gal		
Cooling System	22 L	5.8 gal		
Engine Oil	11 L	2.9 gal		
Final Drive – Each	6 L	1.6 gal		
Hydraulic System – Including Tank	94 L	24.8 gal		
Hydraulic Tank	87 L	23 gal		
Diesel Exhaust Fluid (DEF)	22 L	5.9 gal		

Dimensi	ons			
Boom	Reach 5.1	Reach 5.1 m (16'9")		
Stick	Reach R2	Reach R2.6 m (8'6")		
Bucket	GD 0.65 m <sup>2</sup>	GD 0.65 m³ (0.85 yd³)		
Shipping Height – Top of Cab	2930 mm	9.6 ft		
Handrail Height	2940 mm	9.7 ft		
Shipping Length – without Blade	8560 mm	28.1 ft		
Shipping Length – with Blade	8600 mm	28.2 ft		
Tail Swing Radius	2500 mm	8.2 ft		
Counterweight Clearance	1010 mm	3.3 ft		
Ground Clearance	430 mm	1.4 ft		
Track Length	3970 mm	13 ft		
Length to Center of Rollers	3170 mm	10.4 ft		
Track Gauge	1990 mm	6.5 ft		
Transport Width – with 500 mm (20") Shoes	2490 mm	8.2 ft		
Working Range	s & Forces			
Boom	Reach 5.1 m (16'9")			
Stick	Reach R2.6 m (8'6")			
Bucket	GD 0.65 m³ (0.85 yd³)			
Maximum Digging Depth	6070 mm	19.9 ft		
Maximum Reach at Ground Level	8760 mm	28.7 ft		
Maximum Cutting Height	8950 mm	29.3 ft		
Maximum Loading Height	6310 mm	20.7 ft		
Minimum Loading Height	2320 mm	7.6 ft		
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	5880 mm	19.3 ft		
Maximum Vertical Wall Digging Depth	5850 mm	19.2 ft		
Minimum Working Equipment Radius	2980 mm	9.8 ft		
Bucket Digging Force – ISO	124 kN	27,880 lbf		
Stick Digging Force – ISO	80 kN	17,980 lbf		

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 hg of refrigerant which has a  $CO_2$  equivalent of 1.287 metric tonnes.

**Air Conditioning System** 

#### **STANDARD & OPTIONAL EQUIPMENT**

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Grease lubricated track link	✓	
Tie-down points on base frame	✓	
3.25 mt (7,165 lb) counterweight		✓
3.77 mt (8,311 lb) counterweight		✓
500 mm (20 in) triple grouser shoes		✓
600 mm (24 in) triple grouser shoes		✓
600 mm (24") rubber track shoes		✓
700 mm (28 in) triple grouser shoes		✓
2500 mm (8'2") blade		✓
BOOMS AND STICKS		
5.1 m (16'9") Reach boom		✓
2.6 m (8'6") Reach stick		✓
Bucket linkage without lifting eye, Cat Grade	•	✓
CAB		
Rollover protective structure (ROPS)	✓	
Operator Protective Guards (OPG)		✓
Comfort cab: mechanical suspension seat, 8" touchscreen monitor		✓
Deluxe Cab: air suspension heated seat, 10" touchscreen monitor		✓
Cat Stick Steer		✓
Auxiliary relay		✓
CAT TECHNOLOGIES		
VisionLink	✓	
Cat Remote Flash	✓	
Cat Remote Troubleshoot	✓	
Work tool recognition and tracking (PL161)	✓	
Cat Grade with 2D	✓	
Cat Assist	✓	
Cat Payload	✓	
VisionLink Productivity		✓
Operator Coaching		✓
Cat Grade with 2D with Attachment		✓
Ready Option (ARO)	,	✓
Cat Grade with 3D (single or dual GNSS)	,	<b>√</b>
Cat Grade 3D Ready	,	✓
Cat Grade Connectivity	,	✓
Cat Advanced Payload		✓
Cat Tiltrotator (TRS) integration		✓

ENGINE  Cat C3.6 single turbo diesel engine One-touch low idle with automatic engine speed control Automatic engine shutdown Electric fuel priming pump Two-stage fuel filtration system with water separator and indicator Sealed double element air filter with integrated precleaner Electric cooling fans -18° C (0° F) cold start capability -25° C (-13° F) cold start capability  **ELECTRICAL SYSTEM Maintenance-free battery LED chassis light, left-side/right-side boom lights, cab lights Programmable time-delay LED working lights 360° lighting SERVICE AND MAINTENANCE Side entry to service platform Grouped engine oil and fuel filters Ground-level engine oil dipstick **S-0-S ports Integrated vehicle health management system HYDRAULIC SYSTEM Boom and stick regeneration circuit  Automatic hydraulic warm up Automatic two-speed travel Electric main control valve Boom and stick drift reduction valve Element-type main hydraulic filter Single-type electronic main pump  SAFETY AND SECURITY 2D E-Fence Rear and right-side-view cameras Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts Signaling/warning horn Hydraulic lock out lever  360° visibility Inspection lighting OPTIONAL CONFIGURATION Forest	•	Ctoudoud	0
Cat C3.6 single turbo diesel engine  One-touch low idle with automatic engine speed control  Automatic engine shutdown  Electric fuel priming pump  Two-stage fuel filtration system with water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  Waintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-O-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel Electric main control valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  V TIONAL CONFIGURATION	FNOING	Standard	Optional
One-touch low idle with automatic engine speed control  Automatic engine shutdown  Electric fuel priming pump  Two-stage fuel filtration system with water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  -25° C (-13° F) cold start capability  **  ** ***ELECTRICAL SYSTEM**  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  ** ** **SERVICE AND MAINTENANCE**  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  ** ** ** ** ** ** ** ** ** ** ** ** *			
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Automatic engine shutdown  Electric fuel priming pump  Two-stage fuel filtration system with water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  **CECTRICAL SYSTEM  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  **SERVICE AND MAINTENANCE*  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  **S-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  **SAFETY AND SECURITY*  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>V</b>	
Electric fuel priming pump Two-stage fuel filtration system with water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans -18° C (0° F) cold start capability -25° C (-13° F) cold start capability  **CELECTRICAL SYSTEM**  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  **SERVICE AND MAINTENANCE**  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  **SO'S ports  Integrated vehicle health management system  **HYDRAULIC SYSTEM**  Boom and stick regeneration circuit  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  **SAFETY AND SECURITY**  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Two-stage fuel filtration system with water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  / ELECTRICAL SYSTEM  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-0·S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
water separator and indicator  Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  **  **ELECTRICAL SYSTEM**  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  **  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  \$-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  **  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Sealed double element air filter with integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  **ELECTRICAL SYSTEM**  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  **SERVICE AND MAINTENANCE**  Side entry to service platform  Grouped engine oil and fuel filters  **S-0-S ports**  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		•	
integrated precleaner  Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  **  **  **  **  **  **  **  **  **	<u> </u>	<b>─</b> ✓	
Electric cooling fans  -18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  **ELECTRICAL SYSTEM**  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  **SERVICE AND MAINTENANCE**  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  **S-0-S ports**  Integrated vehicle health management system  HYDRAULIC SYSTEM**  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  **SAFETY AND SECURITY**  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  **OPTIONAL CONFIGURATION**			
-18° C (0° F) cold start capability  -25° C (-13° F) cold start capability  ELECTRICAL SYSTEM  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  3-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		✓	
-25° C (-13° F) cold start capability  ELECTRICAL SYSTEM  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  3-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			✓
ELECTRICAL SYSTEM  Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  \$.0.S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			✓
Maintenance-free battery  LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	· · ·		
LED chassis light, left-side/right-side boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  \$\cdot \cdot		<b>√</b>	
boom lights, cab lights  Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-O-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	·	<b>√</b>	
Programmable time-delay LED working lights  360° lighting  SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  \$-0-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Flement-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S·O·S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	_	✓	
SERVICE AND MAINTENANCE  Side entry to service platform  Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-0·S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			✓
Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-O-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Grouped engine oil and fuel filters  Ground-level engine oil dipstick  S-O-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	Side entry to service platform	✓	
Ground-level engine oil dipstick S-O-S ports  Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>√</b>	
S-O-S ports Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>√</b>	
Integrated vehicle health management system  HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>√</b>	
HYDRAULIC SYSTEM  Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	·	<b>√</b>	
Boom and stick regeneration circuit  Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Automatic hydraulic warm up  Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>√</b>	
Automatic two-speed travel  Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Electric main control valve  Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Boom and stick drift reduction valve  Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION	·		
Element-type main hydraulic filter  Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Single-type electronic main pump  SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
SAFETY AND SECURITY  2D E-Fence  Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
2D E-Fence Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		· ·	
Rear and right-side-view cameras  Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Ground-level engine shutoff switch  Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Service platform with anti-skid plate and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
and countersunk bolts  Signaling/warning horn  Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION			
Hydraulic lock out lever  360° visibility  Inspection lighting  OPTIONAL CONFIGURATION		<b>V</b>	
360° visibility ✓ Inspection lighting ✓  OPTIONAL CONFIGURATION	Signaling/warning horn	✓	
360° visibility ✓ Inspection lighting ✓  OPTIONAL CONFIGURATION	Hydraulic lock out lever	✓	
OPTIONAL CONFIGURATION			✓
OPTIONAL CONFIGURATION	Inspection lighting		✓
Forest ✓	OPTIONAL CONFIGURATION		
	Forest		✓





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