

The new Cat® 815 Soil Compactor gives you technology and power that increases your productivity. Cover more area in less time, especially on large jobsites. New features reduce your maintenance cost and downtime, and an improved operator station keeps you productive throughout the day.

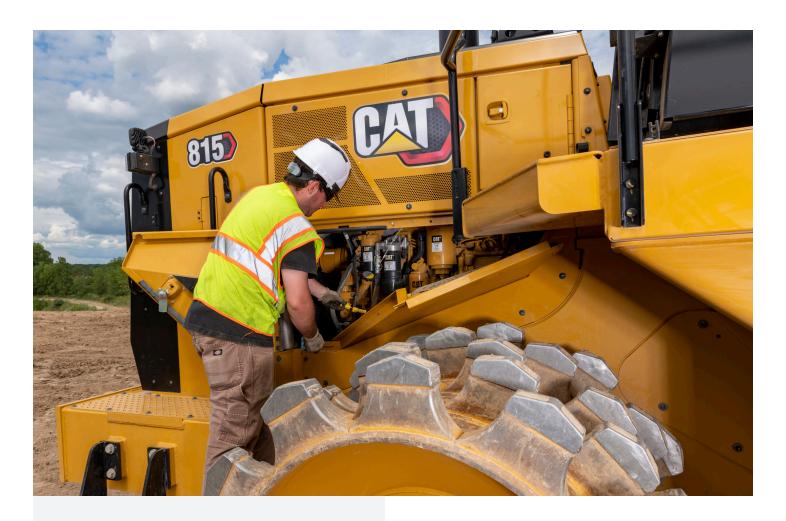
THE NEW CAT 815



BETTER COMPACTION WITH LESS DOWNTIME

The new Cat 815 Soil Compactor gives you the productivity to handle large jobs in less time, while reducing maintenance costs and operator fatigue.

- + ADVANCED TECHNOLOGY AND A ROBUST POWER TRAIN DELIVER MAXIMUM EFFICIENCY ON EVERY SITE
- + NEW DESIGN FEATURES REDUCE YOUR MAINTENANCE COSTS BY UP TO 9%
- + FROM STEERING CONTROLS TO CLIMATE CONTROL, THE CAB DESIGN INCREASES PRODUCTIVITY



MAINTENANCE SAVINGS

GROUPED COMPONENTS
REDUCE MAINTENANCE TIME

SIGHT GAUGES REDUCE

CONTAMINATION RISK

AND DAILY SERVICE TIME

VIMS™ ALERTS
OPERATOR
BEFORE
COMPONENT
FAILURE

HAS 3 TIMES
LONGER LIFE

DO MORE WITH IMPROVED TECHNOLOGY

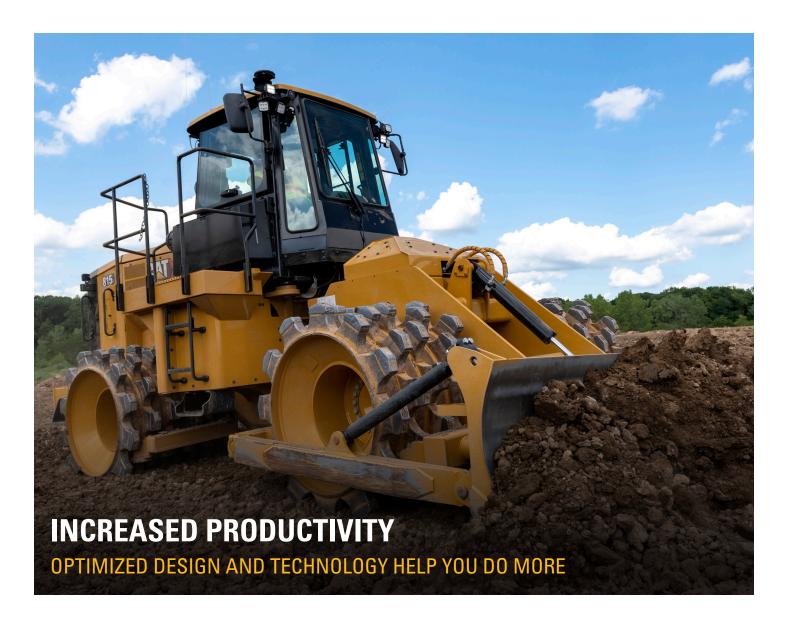
GPS mapping, specialized Cat Compact system, and both onboard and online system monitoring make your machine more productive and longer lasting.

UP TO 9% LOWERMAINTENANCE COSTS

Grouped servicing points, redesigned access, and a long-lived new filtration system reduce your costs and downtime.

GREATER OPERATOR COMFORT AND PRODUCTIVITY

Cab pressurization, climate control, sound dampening, and a Premium Plus seat make the entire workday comfortable, while Cat's Steering and Transmission Integrated Control (STIC $^{\text{TM}}$) system reduces fatigue and cycle time.





GPS-BASED EFFICIENCY

GPS mapping (now offered from the factory) provides visibility to cut/fill data and compacted areas. Optional Cat Compact 3D mapping technology combines advanced compaction measurement, in-cab guidance, and reporting capabilities to help you consistently meet compaction targets quickly, uniformly, and in fewer passes – saving on fuel and the cost of unnecessary rework.



ACCESS VITAL INFORMATION

A 3G touchscreen with user-friendly interface allows operators to monitor real-time machine performance and operating data with the Vital Information Management System (VIMS).



CAT COMPACTION CONTROL

Cat Compaction Control with Machine Drive Power (MDP) is an energy-based measurement system that correlates compaction with rolling resistance to provide an indication of soil stiffness.



IMPROVED EQUIPMENT MANAGEMENT

Cat Link technology (standard) provides access to machine location, hours, fuel consumption, idle time, events, and diagnostic codes through the online VisionLink® interface.



SUPERIOR TAMPING DESIGN

Tamping tips have a chevron design, providing greater ground pressure, more compaction, excellent traction, and a smooth ride. The tamping-tip pattern is symmetrical for equal compaction in forward or reverse.

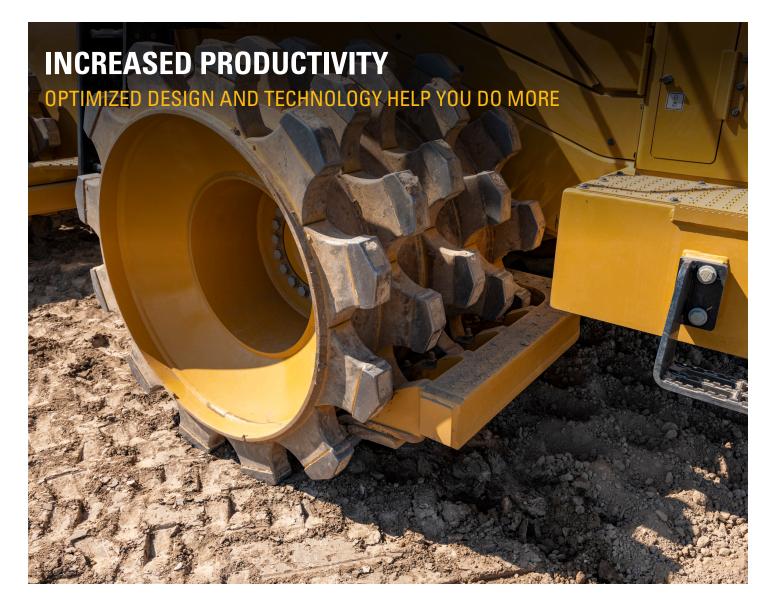


ELIMINATE CARRYOVER DIRT

Each wheel has two cleaner bars to keep the drums free of carryover dirt, regardless of rolling direction, maximizing your efficiency.



The adjustable cleaner bar tips (standard or abrasive) are heat-treated and direct-hardened cutting edge steel to increase wear life, lowering your operating costs. Tamping tips are replaceable and durable for longer life. Each tip is welded to a base assembly, then welded directly to the drum.



EASY MAINTENANCE

QUICK SERVICE



EASY TO SERVICE

Access to the emergency shutdown, battery disconnect, and jump start are at ground level. Coolant, transmission oil, and the hydraulic system are all equipped with sight gauges for quicker inspection and reduced contamination risk. The hydraulic oil cooler, fuel cooler, and condenser are grouped together, and grease points are centralized.



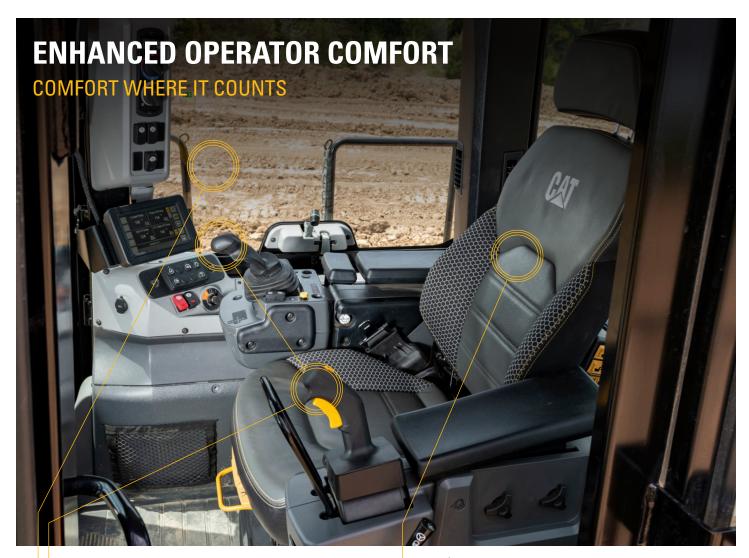
EASIER ELECTRONICS ACCESS

The 815's electronics bay is accessible from inside the cab. This configuration is not only easier, but allows access in a climate-controlled environment.



IMPROVED AIRFLOW TECHNOLOGY

The radial air filter provides three times the previous filter life, and a new electronic air inlet restriction indicator alerts the operator to any airflow blockages.





SINGLE-STICK CONTROL

Easier control and shorter, faster cycles reduce operator fatigue and increase efficiency. The STIC system combines steering, gear selection, and more into a single lever. Steering is accomplished with small side-to-side inputs, and gear changes are controlled with the fingers.



IMPROVED INTERIOR AIR

The operator's preferred temperature settings are maintained with automatic climate control. A powered precleaner air filtration system keeps the inside air pressurized, keeping dust and contaminants out.



PREMIUM PLUS SEAT

The Premium Plus seat delivers total comfort throughout the workday. Standard features include leather finish, forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, and dynamic end dampening. The seat also features a flip-up armrest for easier ingress/egress.

PROVEN POWER

The Cat 7.1 engine is designed for maximum fuel economy and increased power density, reliable performance, and low emissions. Two engine options are available, meeting U.S. EPA Tier 4 Final/ EU Stage V emission standards or emitting equivalent to U.S. EPA Tier 3/EU Stage IIIA.

SMOOTH POWER

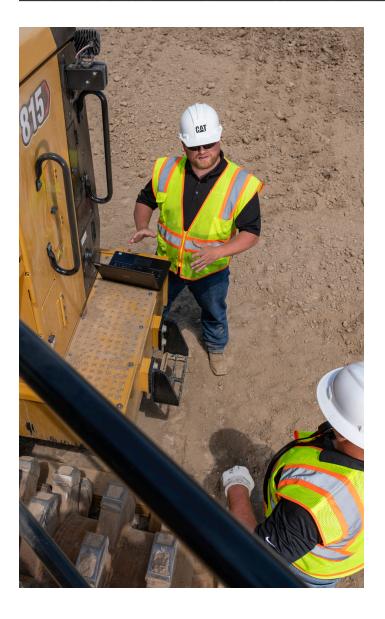
Advanced Productivity Electronic Control System (APECS) transmission controls deliver improved shifting performance and a higher level of comfort for operators. APECS allows you to achieve greater momentum on grades and save fuel by carrying that momentum through the shift points.

FUEL-SAVING CONTROLS

Automatic engine and electrical system shutdown controls save even more fuel by reducing unnecessary idling. Throttle lock reduces fuel burn further by maintaining constant speed and also reduces operator fatigue.



PROTECTING YOUR TEAM SAFE DESIGN



INCREASED VISIBILITY

Backing is safer for operators and everyone onsite with a standard rearview camera. Standard cab-mounted LED warning strobes increase visibility of the machine, further reducing risk.

REDUCED SOUND LEVELS

Low interior sound levels increase operator comfort, and spectator sound levels have also been reduced. Optional low sound packages reduce the noise level even further.

SAFER ACCESS

Emergency shutdown controls are at ground level, and access to most major components is at ground level or from the platform. Ladders, platform, and railing are designed to ensure three points of contact at all times during entry and exit.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

| ENGINE – TIER 3/STAGE IIIA EQU | IVALENT | |
|--------------------------------|----------|------------|
| Engine Model | Cat | C7.1 |
| Rated Speed | 2,200 |) rpm |
| Net Power (SAE J1349:2011) | 186 kW | 249 hp |
| Net Power (ISO 9249:2007) | 186 kW | 249 hp |
| Gross Power (SAE J1995:2014) | 213 kW | 286 hp |
| Engine Power (ISO 14396:2002) | 205 kW | 275 hp |
| Peak Torque @ 1,400 rpm | 1016 N·m | 749 lbf-ft |
| Torque Rise | 26 | % |

 Net power available at flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 2,200 rpm.

| ENGINE – TIER 4 FINAL/STAG | EV | |
|-------------------------------|----------|------------|
| Engine Model | Cat | C7.1 |
| Rated Speed | 2,200 |) rpm |
| Net Power (SAE J1349:2011) | 186 kW | 249 hp |
| Net Power (ISO 9249:2007) | 186 kW | 249 hp |
| Gross Power (SAE J1995:2014) | 212 kW | 284 hp |
| Engine Power (ISO 14396:2002) | 205 kW | 275 hp |
| Peak Torque @ 1,400 rpm | 1223 N·m | 902 lbf-ft |
| Torque Rise | 52 | !% |

 Net power available at the flywheel when the engine is equipped with fan, air cleaner, aftertreatment, and alternator with engine speed at 2,200 rpm.

| WEIGI | HTS | |
|------------------------------|-----------|-----------|
| Tier 4 Final/Stage V | 22 522 kg | 49,652 lb |
| Tier 3/Stage IIIA equivalent | 22 232 kg | 49,013 lb |

| TRANSMISSION | | | | | |
|---------------------------------------------------------|-----------|-------------|----------------|-----------|----------|
| Transmission | Туре | Cat Planeta | ary Power Shif | t | |
| Forward 1 | 6.3 km/h | 3.9 mph | Reverse 1 | 7.2 km/h | 4.5 mph |
| Forward 2 | 10.8 km/h | 6.7 mph | Reverse 2 | 12.4 km/h | 7.7 mph |
| Forward 3 | 18.2 km/h | 11.3 mph | Reverse 3 | 18.4 km/h | 11.4 mph |
| *Speeds assume hard packed, semi-cohesive/cohesive soil | | | | | |

| SERVICE REFILL CAPACITIES | | |
|---------------------------|-------|-----------|
| Fuel Tank | 500 L | 132.1 gal |
| Diesel Exhaust Fluid Tank | 16 L | 4.2 gal |

- All nonroad Tier 4 Final and Stage V diesel engines are required to use:
- Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm for EPA and 10 ppm for EU (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
- Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.
- Diesel Exhaust Fluid (DEF) that meets all requirements defined in ISO 22241-1:2006.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.9 kg of refrigerant which has a ${\rm CO_2}$ equivalent of 2.717 metric tonnes.

| SOUND | | | |
|--------------------------------------|----------|-------------|-------------------|
| | Standard | Suppression | Suppression EU |
| Operator Sound Level (ISO 6396:2008) | | 70 dBA | |
| Tier 4 Final/Stage V | | | |
| Machine Sound Level (ISO 6395:2008) | 111 dBA | 109 dBA | - |
| Machine Sound Level (ISO 6395:2008) | _ | _ | 107 dBA |
| Tier 3/Stage IIIA Equivalent | | | |
| Machine Sound Level (ISO 6395:2008) | 112 dBA | 110 dBA | - |

- The operator sound pressure level was measured according to the test procedures and conditions specified in ISO 6396:2008. The measurement was conducted at the maximum engine cooling fan speed.
- The operator sound pressure level uncertainty is ± 2 dB(A)
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.
- The machine sound power level was measured according to the test procedures and conditions specified in ISO 6395:2008. The measurement was conducted at the maximum engine cooling fan speed.

| | | <u>'</u> | |
|---------------------------------|------------|---------------------|----------------------|
| | BLADES | | |
| Straight Blade | | | |
| Capacity | | 2.06 m ³ | 2.69 yd ³ |
| Overall Width | | 3761 mm | 12.3 ft |
| Height | | 860 mm | 2.8 ft |
| Digging Depth | | 222 mm | 0.7 ft |
| Ground Clearance | | 802 mm | 2.6 ft |
| Maximum Tilt | | 346 mm | 1.1 ft |
| Turning Radius - Outside Corne | r of Blade | 6437 mm | 21.1 ft |
| Turning Radius - Inside Face of | Pusharm | 2520 mm | 8.3 ft |
| Weight | | 800 kg | 1,764 lb |
| Total Operating Weight | | 22 522 kg | 49,652 lb |
| | WHEELS | | |
| Tamping Foot | | | |
| Weight (Group) | | 4409 ka | 9.720 lb |

| WHEELS | | |
|---------------------|---------|----------|
| Tamping Foot | | |
| Weight (Group) | 4409 kg | 9,720 lb |
| Outside Diameter | 1412 mm | 55.6 in |
| Drum Diameter | 1029 mm | 40.5 in |
| Drum Width | 991 mm | 39.0 in |
| Tips per Row | 1: | 2 |
| Tips per Wheel | 60 | 0 |
| Replaceable | Weld | d On |
| Width Over Drums | 3243 mm | 127.7 in |
| Width Between Drums | 1261 mm | 49.6 in |
| Tip Height | 192 mm | 7.5 in |

with 9.5% rolling resistance.

STANDARD & OPTIONAL EQUIPMENT

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

| POWER TRAIN | STANDARD | OPTIONAL |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------|
| Advanced Productivity Electronic Control System (APECS) | • | |
| Axles – standard or non-spin rear | | • |
| Brakes, full hydraulic, enclosed, wet multiple disc service brakes | • | |
| Cat clean emission module (Tier 4 Final/Stage V only) | • | |
| Electro hydraulic parking brake | • | |
| Electronic Clutch Pressure Control (ECPC) | • | |
| Engine, Cat C7.1 configured for two emissions options: Tier 4 Final/Stage V or Tier 3/Stage IIIA equivalent | • | |
| Engine driven cooling fan – suction | • | |
| Fuel priming pump (electric) | • | |
| Fuel-to-air cooler | • | |
| Ground level engine shutoff | • | |
| Heater, engine coolant, 120V | | • |
| Heater, engine coolant, 240V | | • |
| Throttle lock | • | |
| Torque converter | • | |
| Transmission, planetary, with 3F/3R speed range control | • | |
| | | |
| FI FCTRICAL | STANDARD | ΩΡΤΙΩΝΔΙ |
| ELECTRICAL Alarm back-up | STANDARD | OPTIONAL |
| Alarm, back-up | STANDARD • | OPTIONAL |
| | • | OPTIONAL |
| Alarm, back-up Alternator, 150 amp | • | OPTIONAL |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free | • | OPTIONAL |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect | • | OPTIONAL |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch | • | OPTIONAL • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) | • | OPTIONAL • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED | • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED | • | • OPTIONAL |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start | • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights — standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights — standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights — standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision Cat Compaction Control (ready) | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision Cat Compaction Control (ready) Fingertip shifting controls | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision Cat Compaction Control (ready) Fingertip shifting controls Flip-up armrest | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision Cat Compaction Control (ready) Fingertip shifting controls Flip-up armrest Glass (window) – rubber-mounted glass | • • • • • • • • • • • • • • • • • • • | • |
| Alarm, back-up Alternator, 150 amp Batteries, maintenance-free Electrical system, 24V Ground level lockable master disconnect switch Lighting system (front and rear) Lights – standard or LED Starting receptacle for emergency start OPERATOR ENVIRONMENT Cat Compact Ready Air conditioner Cab, sound-suppressed pressurized Camera, rear vision Cat Compaction Control (ready) Fingertip shifting controls Flip-up armrest Glass (window) – rubber-mounted glass Horn, electric | • • • • • • • • • • • • • • • • • • • | • |

| OPERATOR ENVIRONMENT (CONTINUED) | STANDARD | OPTIONAL |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------|
| Mirrors (cab) – standard or heated | | • |
| Precleaner (cab) – powered | • | |
| Radio, AM/FM/Aux/USB/Bluetooth | | • |
| Radio ready for entertainment: antenna, speakers, converter (12V, 10-15 amp) | • | |
| Seat (cab) – heated and ventilated | • | |
| Seat, Cat Premium Plus (leather) | • | |
| STIC control system with lockout | • | |
| Vital Information Management System (VIMS): graphical information display, external data port, customizable operator profiles, event indicator light on rear grill | • | |
| TIRES, RIMS AND WHEELS | STANDARD | OPTIONAL |
| Wheels, tamping foot | • | |
| GUARDS | STANDARD | OPTIONAL |
| Cleaner bars with teeth | • | |
| Guards, crankcase and power train | • | |
| Guard, driveshaft | • | |
| FLUIDS | STANDARD | OPTIONAL |
| Antifreeze, -50° C (-58° F) | | • |
| Antifreeze, premixed 50% concentration extended life (-34° C/-29° F) | • | |
| | | OPTIONAL |
| OTHER STANDARD EQUIPMENT | STANDARD | |
| OTHER STANDARD EQUIPMENT DEF tank fill gauge | STANDARD • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank | • • | OI HORAL |
| DEF tank fill gauge Ecology drains for engine, radiator, | STANDARD • • | OI HOWAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval | • | OI HOWAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready Fuel tank, 500 L (132.1 gal) | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready Fuel tank, 500 L (132.1 gal) Hitch, drawbar with pin Hydraulic, engine, and transmission | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready Fuel tank, 500 L (132.1 gal) Hitch, drawbar with pin Hydraulic, engine, and transmission oil coolers | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready Fuel tank, 500 L (132.1 gal) Hitch, drawbar with pin Hydraulic, engine, and transmission oil coolers Oil change system, high speed | • | OI HONAL |
| DEF tank fill gauge Ecology drains for engine, radiator, transmission, hydraulic tank Engine, crankcase, 500 hour interval with CJ-4 oil Fire suppression ready Fuel tank, 500 L (132.1 gal) Hitch, drawbar with pin Hydraulic, engine, and transmission oil coolers Oil change system, high speed Oil sampling valves | • | OI HONAL |





AEXQ3110-00 Build Number: 11A

Global

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