



Albatross Equipment Earthworks
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Inspection Checklist for 2020 Caterpillar 279D3



Equipment Details:

- **Model:** 2020 Caterpillar 279D3
- **Machine Hours:** 675
- **Condition:** Good
- **Features:** Rubber Tracks, Enclosed ROPS (EROPS), 2-Speed, High Flow XPS, Hydraulic Quick Attach Bucket, Auxiliary Valves

Structural Components

- **Loader Arms:** Inspected for cracks, bends, or deformations. **Result:** No issues found.
- **Quick-Attach Mechanism:** Verified for proper functionality and wear. **Result:** Operates smoothly with no damage.
- **Cab Structure (EROPS):** Checked for damage or loose components. **Result:** Excellent condition, no cracks or defects.

Hydraulic System

- **Hydraulic Hoses:** Inspected for wear, cracks, or leaks. **Result:** No visible issues.
- **Hydraulic Cylinders:** Checked for smooth operation and leaks. **Result:** Fully functional and leak-free.
- **Auxiliary Valves:** Tested for proper pressure and operation. **Result:** Performs as expected.
- **Hydraulic Fluid Levels:** Measured and topped off if needed. **Result:** Levels are optimal with no contamination detected.

Tracks and Undercarriage

- **Rubber Tracks:** Inspected for wear and damage. **Result:** 85% tread remaining, no visible cracks or cuts.
- **Track Rollers and Idlers:** Checked for wear and alignment. **Result:** All components are in good condition and properly aligned.

Engine and Powertrain

- **Engine Performance:** Tested for unusual noises, smoke, or vibrations. **Result:** Smooth operation with no irregularities.
- **Air Filter:** Checked for clogging or debris. **Result:** Clean and functioning well.
- **Fluid Levels (Engine Oil, Coolant):** Inspected and topped up as needed. **Result:** Fluids are within recommended levels.
- **Transmission:** Verified smooth shifting and operational performance. **Result:** Fully operational with no issues.

Electrical System

- **Battery:** Tested for charge and connection integrity. **Result:** Battery is in excellent condition.
- **Lights:** Inspected all external and internal lights. **Result:** All lights are functional.
- **Control Panel and Display:** Verified proper functionality. **Result:** Display is clear, and all controls respond correctly.

Operator Controls

- **Joystick Controls:** Tested for responsiveness and precision. **Result:** Smooth and accurate.
- **Pedals:** Checked for wear and operational smoothness. **Result:** No wear or sticking observed.
- **Cab Comfort Features:** Heat and ventilation systems tested. **Result:** Fully operational.

Bucket and Attachments

- **Bucket Condition:** Inspected for cracks, dents, or excessive wear. **Result:** Excellent condition with minimal wear.
- **High Flow XPS System:** Verified for proper operation. **Result:** Fully functional with no issues.

Safety Components

- **Backup Alarm:** Checked for functionality. **Result:** Operational.
- **Seat Belt:** Inspected for wear and secure attachment. **Result:** In good condition.

- **Fire Extinguisher:** Confirmed presence and condition. **Result:** Installed and functional.
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Overall Evaluation

The 2020 Caterpillar 279D3 has been thoroughly inspected and is in **good condition**, with all major systems operational and well-maintained. Minor wear is consistent with usage, and the machine is fully work-ready.

Recommendations

- Routine maintenance is recommended within the next 100 hours to ensure continued performance.
- Monitor track wear and replace as needed to maintain optimal traction.