



Albatross Equipment Earthworks
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Inspection Checklist for 2015 DEERE 410L



1. Engine and Powertrain

- **Engine Performance:** Engine started smoothly with no unusual noises or excessive smoke. The 102 HP John Deere diesel engine is running well, with sufficient power output during operation.
- **Fluid Levels:** Engine oil, coolant, and transmission fluid are at proper levels. No signs of leaks.
- **Air Filters:** Inspected and clean, no replacement needed at this time.
- **4F/3R Power Shift Transmission:** Shifts smoothly between gears under load and no lag observed during testing. Fluid clean and at optimal level.

2. Hydraulic System

- **Hydraulic Fluid Levels:** Checked and topped off. No leaks found in lines or fittings.
- **Front Auxiliary Hydraulics:** Functioning properly with no pressure loss during operation.
- **Rear Auxiliary Hydraulics:** Tested and working correctly, delivering consistent power to attachments.
- **Hydraulic Cylinders:** Boom, dipper, and bucket cylinders inspected. Minor wear on seals but no leaks or damage.

3. Backhoe and Loader Attachments

- **92" GP Bucket:** Bucket structure is intact with no cracks or welds. Minimal wear on cutting edge.
- **18" Tooth Bucket:** Teeth are in good condition with minimal wear. Coupler securely attaches bucket.
- **Extendahoe:** Smooth operation during extension and retraction. No abnormal play or wear at pivot points.
- **Power Coupler:** Secure and functioning well, no excessive movement or signs of wear.

4. Structural Integrity

- **Frame and Boom:** Frame is straight and free of any structural damage. Boom and dipper show no cracks or weld repairs.
- **Outriggers:** Both outriggers deploy and retract smoothly, providing adequate stability. Pads show normal wear.

5. Tires and Undercarriage

- **Front Tires (380/80-18):** 75% tread remaining, no sidewall damage or uneven wear.
- **Rear Tires (21L-24):** 80% tread remaining, consistent wear pattern.
- **Axles and Hubs:** No signs of excessive wear or play. Greased during inspection.

6. Operator's Cabin

- **Controls:** Pilot controls fully operational and responsive. No stiffness or lag noted.
- **Visibility:** Windows are clean with no cracks or damage. Operator has clear sightlines.
- **Comfort Features:** Heat, air conditioning, and radio are functioning properly. Seat in good condition with minor wear.
- **Instruments and Gauges:** Dashboard gauges and indicators tested and functioning correctly.

7. Electrical System

- **Battery:** Tested with proper charge and no corrosion on terminals.
- **Lights:** All lights, including work lights, turn signals, and brake lights, are operational.
- **Alarms and Safety Features:** Backup alarm and horn function as expected.

8. Performance Testing

- **Loader Breakout Force (10,645 lbs):** Achieved full breakout force with no performance degradation.
- **Maximum Digging Depth (19'8"):** Verified during operation; extendahoe reached maximum depth without difficulty.
- **Hydraulic Response:** Loader and backhoe arms respond promptly with no hydraulic lag.

****OVERALL ASSESSMENT****

The 2015 DEERE 410L is in ****good condition (90%)****. It has been well-maintained with no critical issues detected during inspection. Minor wear on hydraulic seals and tires is consistent with usage hours and does not affect functionality. This machine is ****work-ready**** and suitable for immediate deployment.