



Machine Id  
**JOHN DEERE 750J 6X25 (S/N T0750JX130818)**  
 Component  
**Left Final Drive**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### WEAR

Gear wear is indicated.

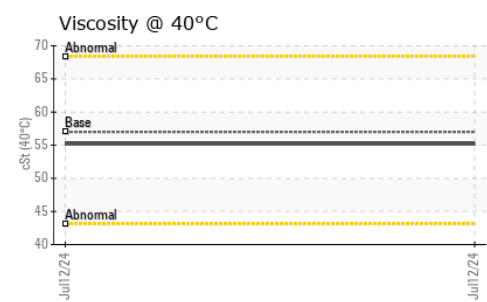
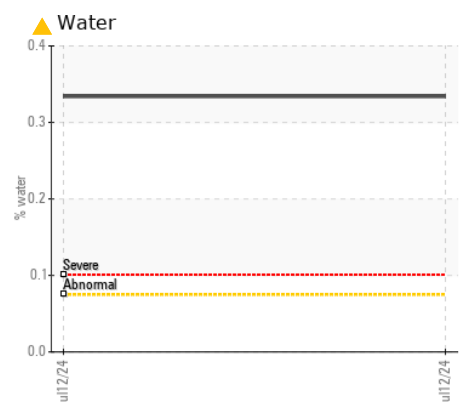
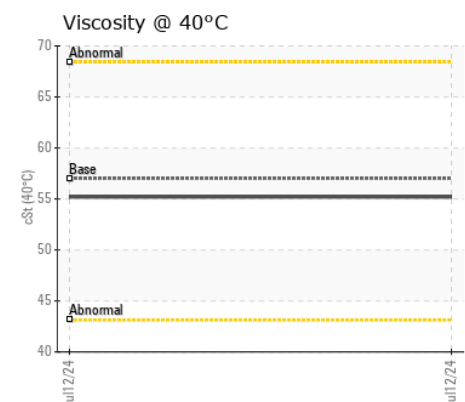
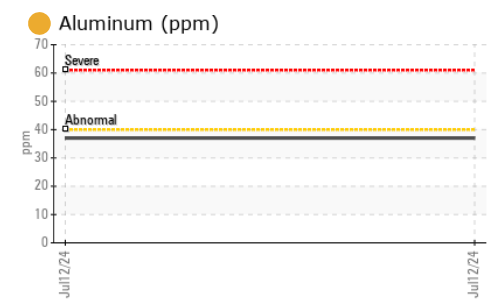
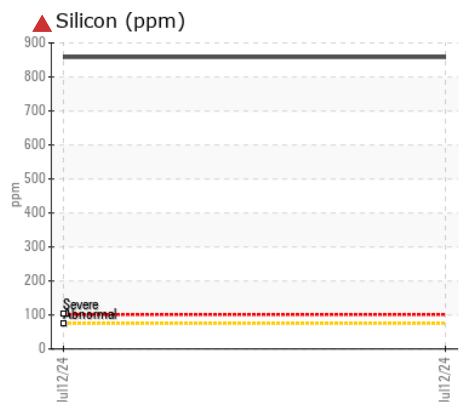
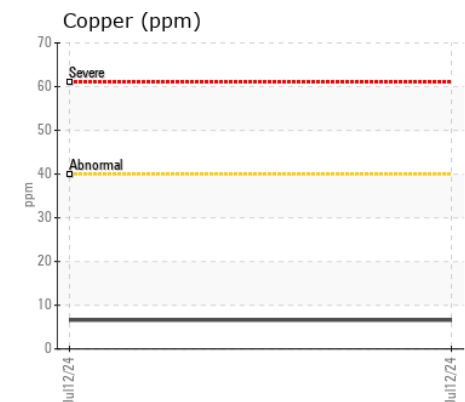
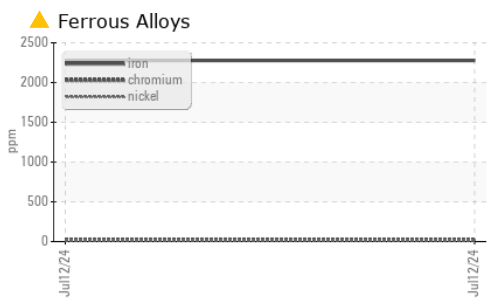
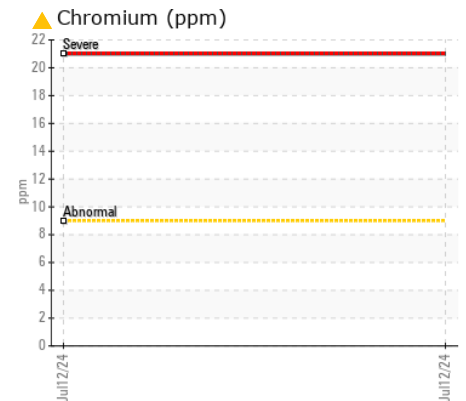
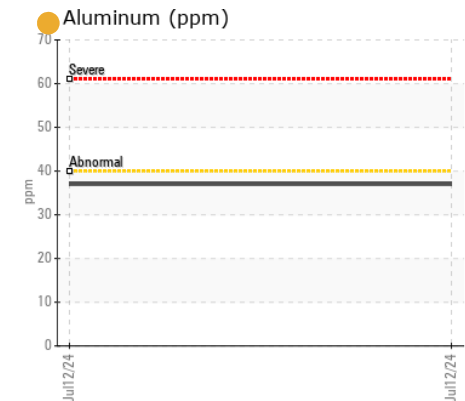
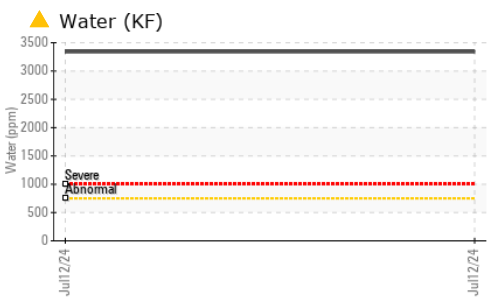
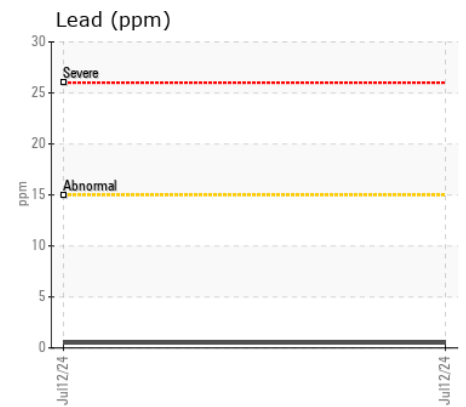
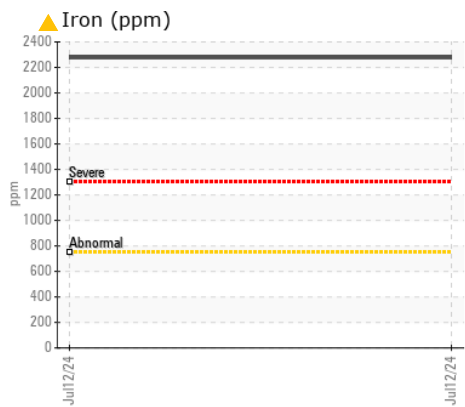
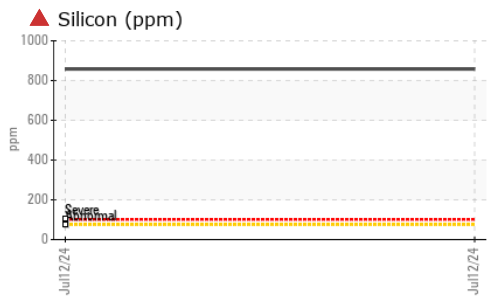
### CONTAMINATION

There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| Test             | UOM    | Method      | Limit/Abn | Current     | History1 | History2 |
|------------------|--------|-------------|-----------|-------------|----------|----------|
| Sample Number    |        | Client Info |           | JR0197049   | ---      | ---      |
| Sample Date      |        | Client Info |           | 12 Jul 2024 | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | 1823        | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | 0           | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | 0           | ---      | ---      |
| Oil Changed      |        | Client Info |           | Not Chngd   | ---      | ---      |
| Filter Changed   |        | Client Info |           | Not Chngd   | ---      | ---      |
| Sample Status    |        |             |           | SEVERE      | ---      | ---      |
| PQ               |        | ASTM D8184  | >1250     | 813         | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >750      | ▲ 2277      | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >9        | ▲ 21        | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | 11          | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | 10          | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | 0           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >40       | ● 37        | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >15       | <1          | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >40       | 7           | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | 0           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | <1          | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >75       | ▲ 858       | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | 5           | ---      | ---      |
| Water            | %      | ASTM D6304  | >0.075    | ▲ 0.334     | ---      | ---      |
| ppm Water        | ppm    | ASTM D6304  | >750      | ▲ 3340      | ---      | ---      |
| Silt             | scalar | *Visual     | NONE      | MODER       | ---      | ---      |
| Debris           | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Sand/Dirt        | scalar | *Visual     | NONE      | NONE        | ---      | ---      |
| Appearance       | scalar | *Visual     | NORML     | NORML       | ---      | ---      |
| Odor             | scalar | *Visual     | NORML     | NORML       | ---      | ---      |
| Emulsified Water | scalar | *Visual     | >0.075    | 0.2%        | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m | >51       | 5           | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 6         | 7           | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 0         | 3           | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 0         | 10          | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | 23          | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 145       | 91          | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 3570      | 3183        | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1290      | 892         | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 1640      | 1178        | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m |           | 4022        | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 57.0      | 55.2        | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0197049 **Received** : 16 Jul 2024  
**Lab Number** : 06238050 **Tested** : 17 Jul 2024  
**Unique Number** : 11126884 **Diagnosed** : 18 Jul 2024 - Don Baldrige  
**Test Package** : MOBCE ( Additional Tests: KF, PQ )

**NC FOREST SERVICE**  
 221 AIRPORT RD  
 FAYETTEVILLE, NC  
 US 28306  
 Contact: WALTER CAPPS  
 WATER.CAPPS@NCAGR.GOV  
 T:  
 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.  
 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)