



|                 |                 |
|-----------------|-----------------|
| WEAR            | <b>NORMAL</b>   |
| CONTAMINATION   | <b>ABNORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b>   |

Machine Id  
**JOHN DEERE 744L 1DW744LWHNL715702**

Component  
**Hydraulic System**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>JR0209760</b>   | JR0191079   | ---      |
| Sample Date    |     | Client Info |           | <b>21 May 2024</b> | 17 Nov 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>4093</b>        | 2515        | ---      |
| Oil Age        | hrs | Client Info |           | <b>4093</b>        | 2515        | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Not Changd  | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ABNORMAL    | ---      |

### WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>15</b>    | 7        | ---      |
| Iron         | ppm    | ASTM D5185m | >20       | <b>0</b>     | 11       | ---      |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | ---      |
| Aluminum     | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | ---      |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | ---      |
| Copper       | ppm    | ASTM D5185m | >75       | <b>&lt;1</b> | 6        | ---      |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | ---      |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | ---      |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | ---      |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | ---      |

### CONTAMINATION

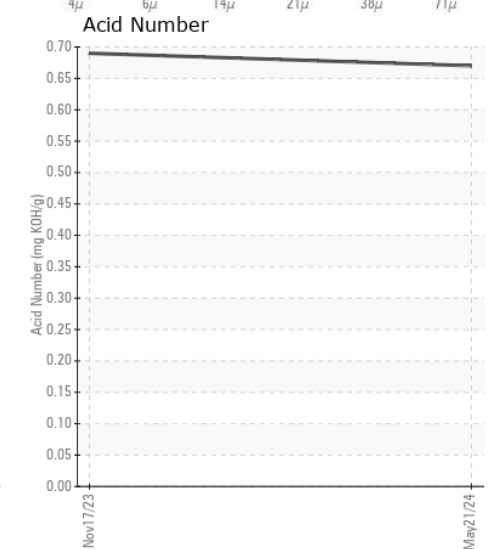
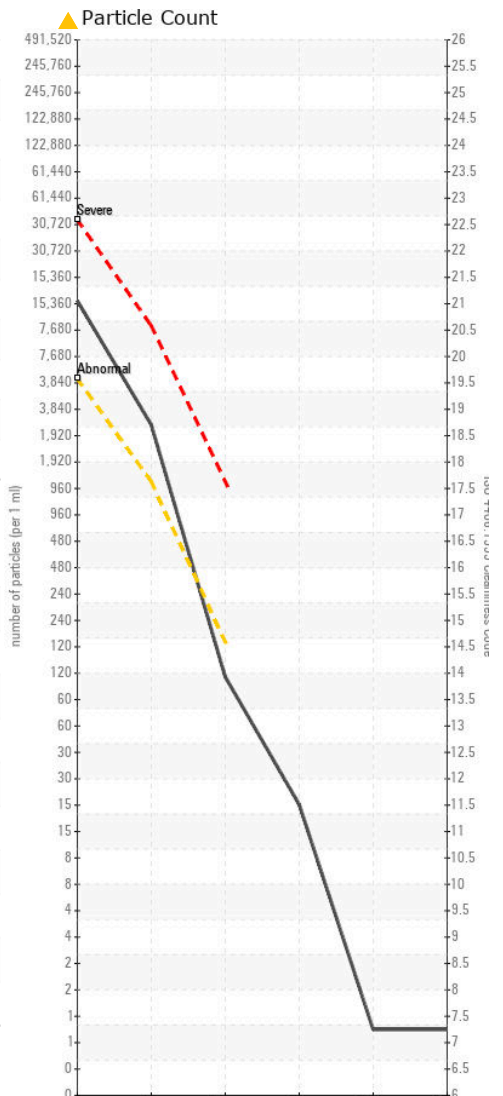
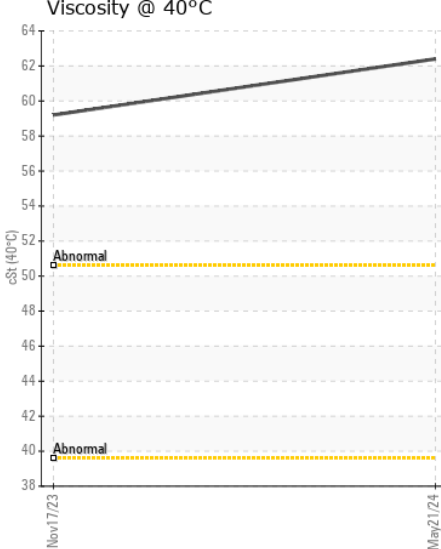
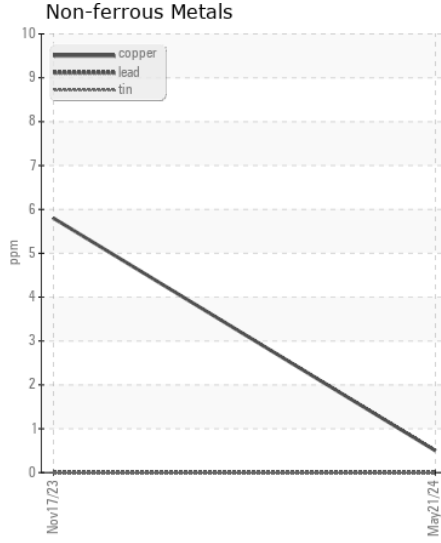
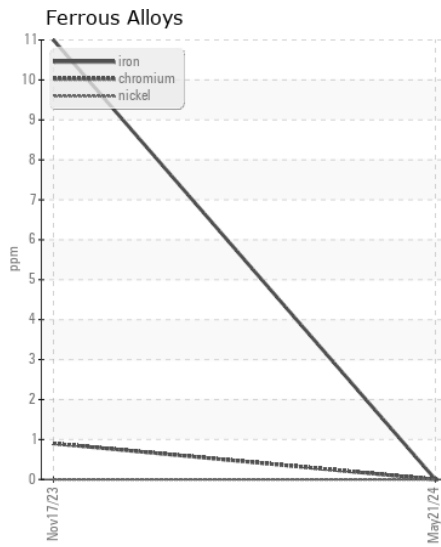
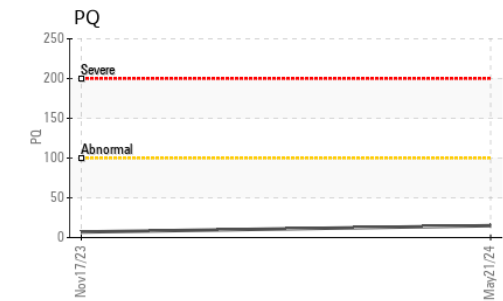
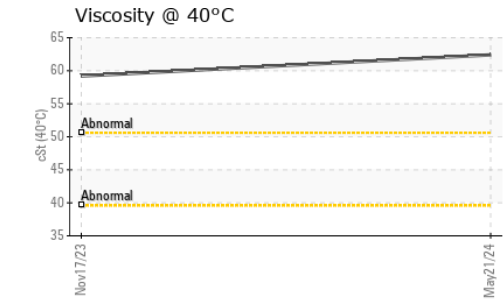
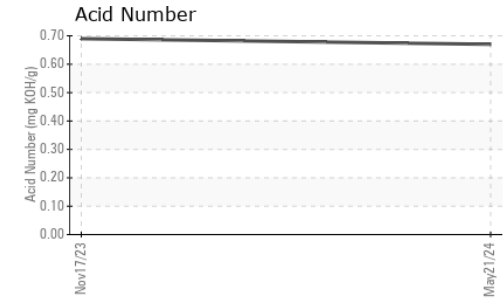
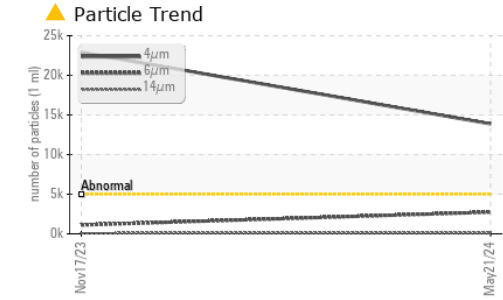
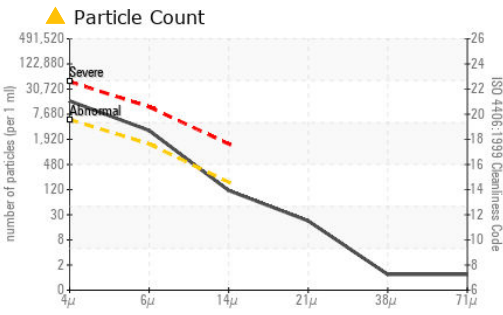
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

|                  |        |              |           |                   |            |     |
|------------------|--------|--------------|-----------|-------------------|------------|-----|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>&lt;1</b>      | 8          | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>0</b>          | 2          | --- |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>        | NEG        | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>▲ 13875</b>    | ▲ 22896    | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>▲ 2733</b>     | 1115       | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>101</b>        | 71         | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>19</b>         | 16         | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>1</b>          | 0          | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>1</b>          | 0          | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>▲ 21/19/14</b> | ▲ 22/17/13 | --- |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>       | NONE       | --- |
| Debris           | scalar | *Visual      | NONE      | <b>LIGHT</b>      | NONE       | --- |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>       | NONE       | --- |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>      | NORML      | --- |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>      | NORML      | --- |
| Emulsified Water | scalar | *Visual      | >0.1      | <b>NEG</b>        | NEG        | --- |

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |  |              |      |     |
|------------------|----------|-------------|--|--------------|------|-----|
| Sodium           | ppm      | ASTM D5185m |  | <b>&lt;1</b> | 5    | --- |
| Boron            | ppm      | ASTM D5185m |  | <b>0</b>     | 21   | --- |
| Barium           | ppm      | ASTM D5185m |  | <b>0</b>     | 0    | --- |
| Molybdenum       | ppm      | ASTM D5185m |  | <b>&lt;1</b> | 20   | --- |
| Manganese        | ppm      | ASTM D5185m |  | <b>&lt;1</b> | 0    | --- |
| Magnesium        | ppm      | ASTM D5185m |  | <b>0</b>     | 62   | --- |
| Calcium          | ppm      | ASTM D5185m |  | <b>95</b>    | 188  | --- |
| Phosphorus       | ppm      | ASTM D5185m |  | <b>664</b>   | 664  | --- |
| Zinc             | ppm      | ASTM D5185m |  | <b>858</b>   | 894  | --- |
| Sulfur           | ppm      | ASTM D5185m |  | <b>1962</b>  | 1780 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  |  | <b>0.67</b>  | 0.69 | --- |
| Visc @ 40°C      | cSt      | ASTM D445   |  | <b>62.4</b>  | 59.2 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209760 **Received** : 22 May 2024  
**Lab Number** : 06187534 **Tested** : 23 May 2024  
**Unique Number** : 11044286 **Diagnosed** : 24 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
 4161 AUBURN CHURCH RD  
 GARNER, NC  
 US 27529

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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)

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