



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

Area  
**[CHARLES A WRIGHT LOG]**  
 Machine Id  
**JOHN DEERE 748L 1DW748LBKNF714401**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0222025</b>   | JR0200387   | JR0180458   |
| Sample Date    |     | Client Info |           | <b>18 Jun 2024</b> | 26 Mar 2024 | 02 Jan 2024 |
| Machine Age    | hrs | Client Info |           | <b>2976</b>        | 2500        | 2000        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 2000        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 2000        |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| Iron         | ppm    | ASTM D5185m | >20       | <b>23</b>    | 13       | 11       |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>6</b>     | <1       | <1       |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | 1        | <1       |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | <1       |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >10       | <b>1</b>     | <1       | 2        |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | <1       |
| Copper       | ppm    | ASTM D5185m | >75       | <b>1</b>     | 4        | 3        |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | <1       |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | <1       |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |

### CONTAMINATION

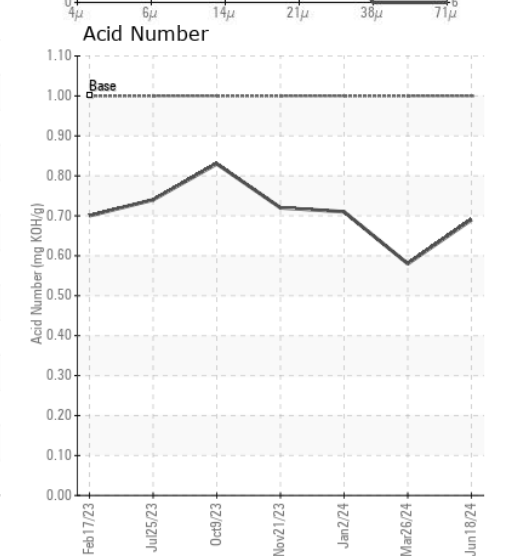
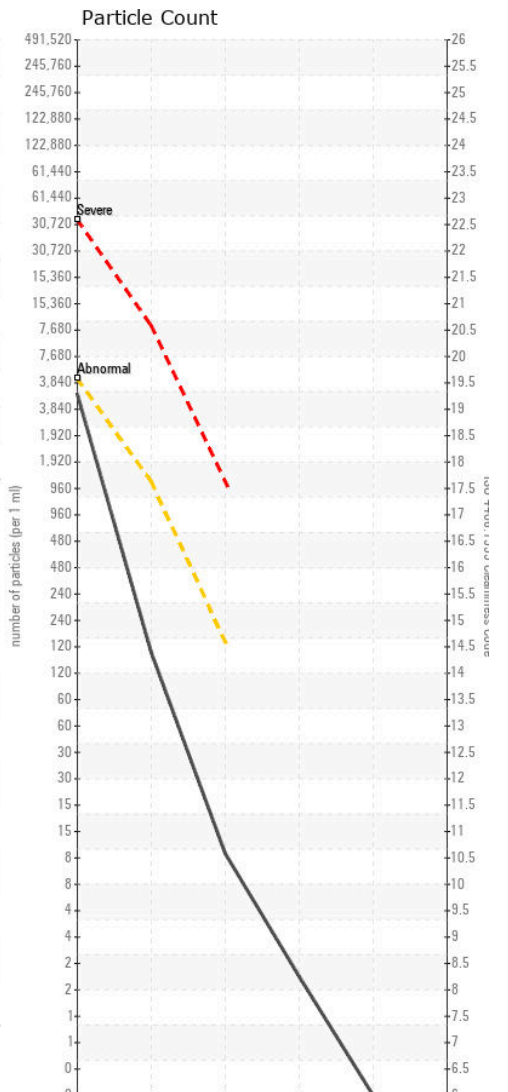
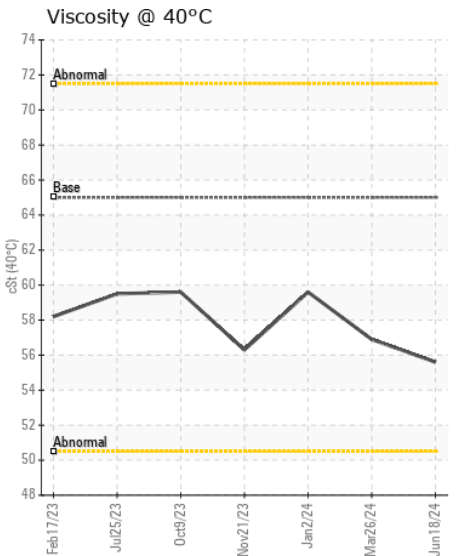
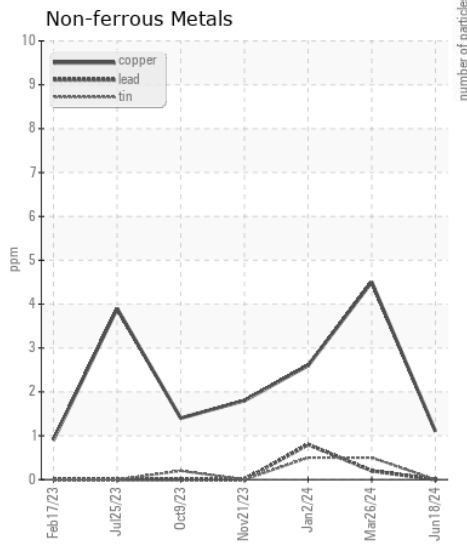
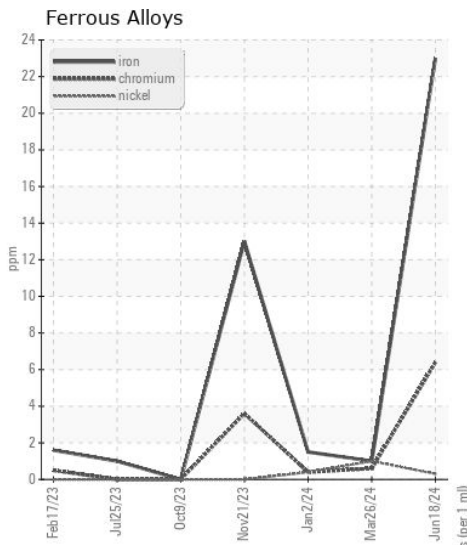
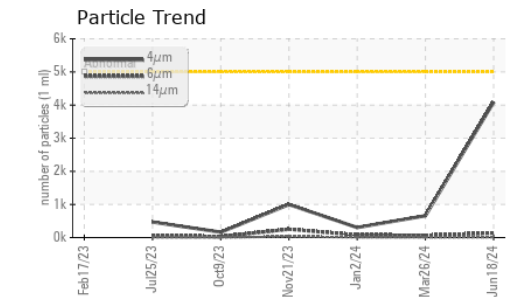
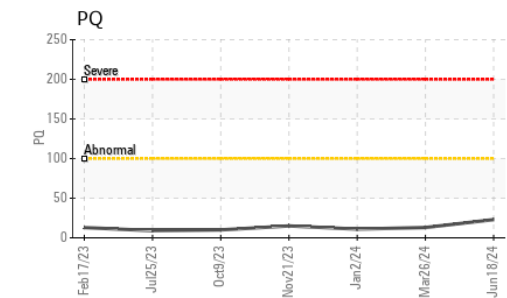
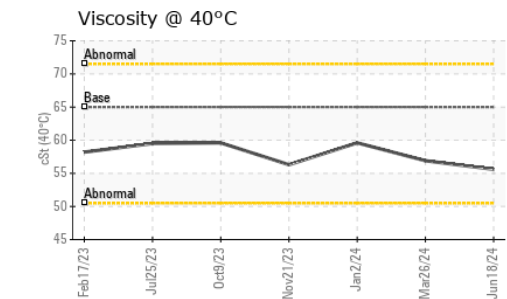
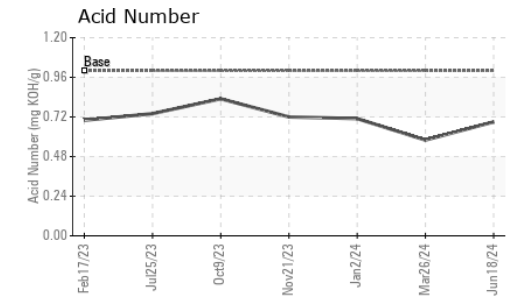
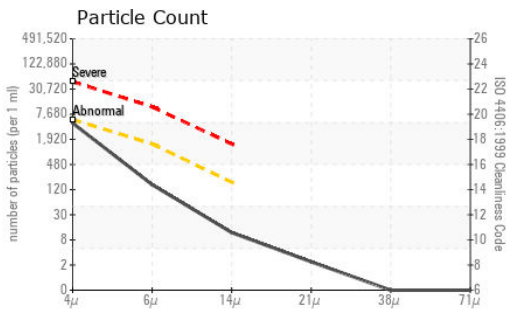
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>7</b>        | 3        | 2        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>8</b>        | 3        | 3        |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>4088</b>     | 659      | 303      |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>139</b>      | 64       | 78       |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>10</b>       | 8        | 9        |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>2</b>        | 3        | 4        |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>0</b>        | 0        | 0        |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>19/14/10</b> | 17/13/10 | 15/13/10 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Emulsified Water | scalar | *Visual      | >0.1      | <b>NEG</b>      | NEG      | 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>3</b>     | 2    | 0    |
| Boron            | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 11   |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>0</b>     | <1   | <1   |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | <1   | 0    |
| Magnesium        | ppm      | ASTM D5185m |      | <b>3</b>     | 4    | 2    |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>95</b>    | 115  | 109  |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>702</b>   | 626  | 797  |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>894</b>   | 871  | 1002 |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>2013</b>  | 1937 | 2139 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>0.69</b>  | 0.58 | 0.71 |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>55.6</b>  | 56.9 | 59.6 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0222025 **Received** : 20 Jun 2024  
**Lab Number** : 06215713 **Tested** : 21 Jun 2024  
**Unique Number** : 11088577 **Diagnosed** : 22 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

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

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: RALEIGH SHOP  
 sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (919)614-2260

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: (919)779-5432