



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

Machine Id  
**JOHN DEERE 748L 1DW748LBCMF712187**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0200421</b>   | JR0165120   | JR0164830   |
| Sample Date    |     | Client Info |           | <b>21 May 2024</b> | 16 Feb 2024 | 09 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>5508</b>        | 5124        | 4500        |
| Oil Age        | hrs | Client Info |           | <b>1500</b>        | 1000        | 500         |
| Filter Age     | hrs | Client Info |           | <b>1500</b>        | 1000        | 500         |
| Oil Changed    |     | Client Info |           | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   |
| Filter Changed |     | Client Info |           | <b>Not Chngd</b>   | Not Chngd   | Not Chngd   |
| 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>&lt;1</b> | 0        | 0        |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>0</b>     | 0        | 0        |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | 0        |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | 0        |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | 1        | 0        |
| Copper       | ppm    | ASTM D5185m | >75       | <b>2</b>     | 2        | 1        |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | 0        |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |

### CONTAMINATION

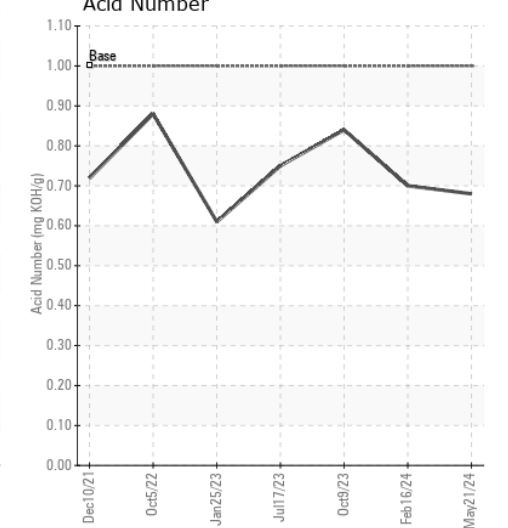
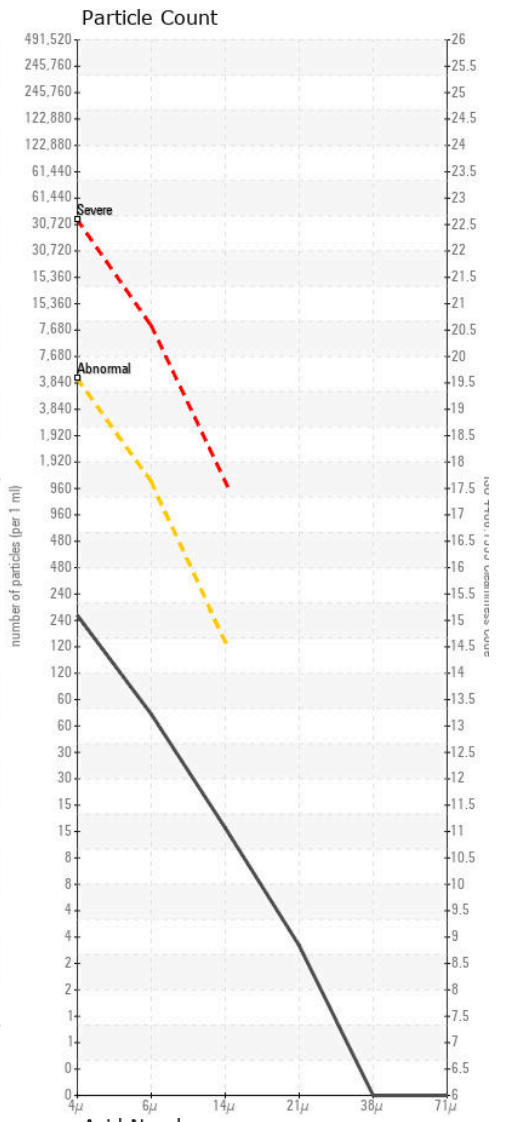
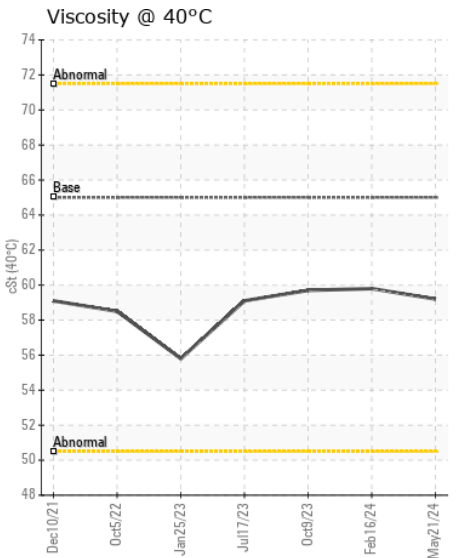
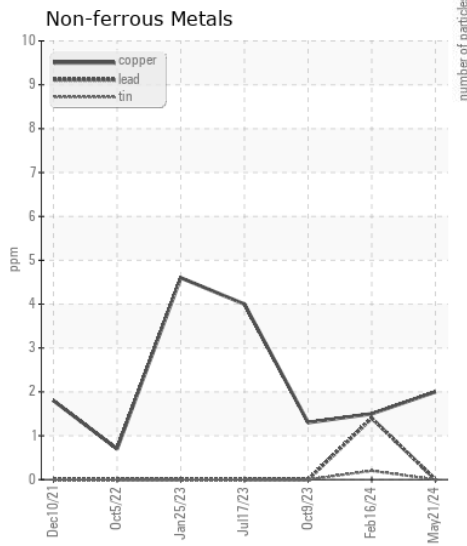
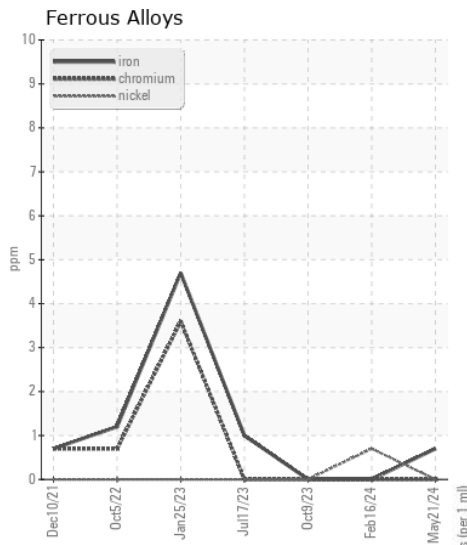
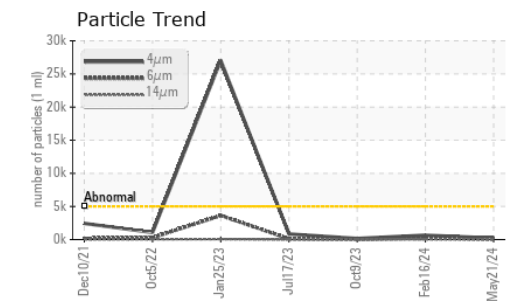
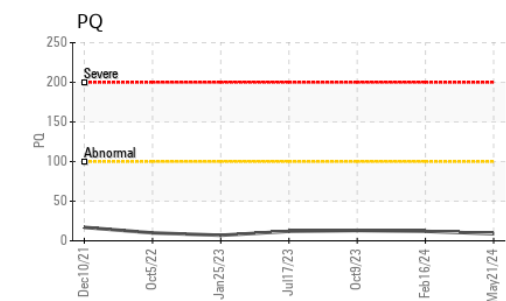
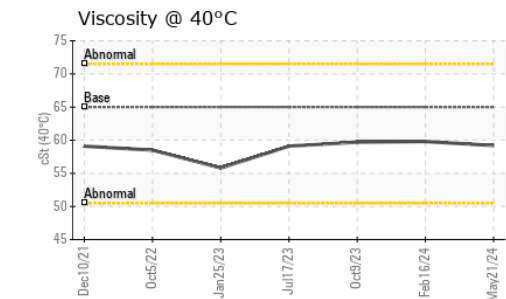
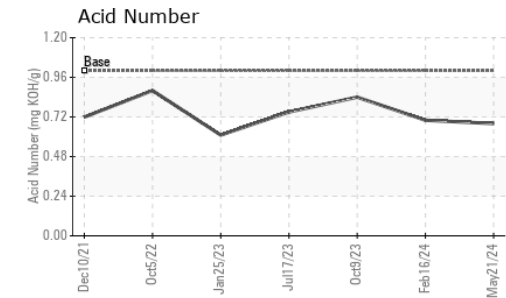
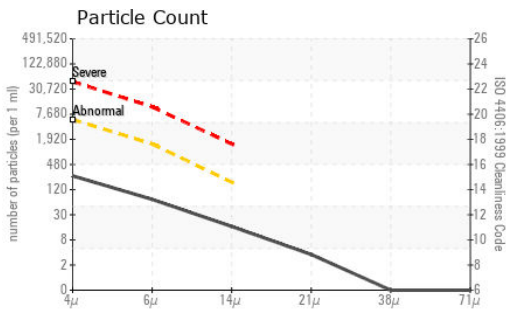
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 2        | 1        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 4        | <1       |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>226</b>      | 661      | 167      |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>62</b>       | 262      | 51       |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>14</b>       | 30       | 7        |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>3</b>        | 10       | 2        |
| 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>15/13/11</b> | 17/15/12 | 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>&lt;1</b> | 1    | 1    |
| Boron            | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | <1   |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Magnesium        | ppm      | ASTM D5185m |      | <b>0</b>     | 3    | 2    |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>77</b>    | 90   | 89   |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>655</b>   | 668  | 622  |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>858</b>   | 860  | 809  |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>1790</b>  | 1636 | 1540 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>0.68</b>  | 0.70 | 0.84 |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>59.2</b>  | 59.8 | 59.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200421 **Received** : 22 May 2024  
**Lab Number** : 06187555 **Tested** : 23 May 2024  
**Unique Number** : 11044307 **Diagnosed** : 23 May 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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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