



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

Machine Id  
**JOHN DEERE 544L 1DW544LZKKF699729**

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>JR0222235</b>   | JR0186660   | JR0153005   |
| Sample Date    |     | Client Info |           | <b>07 Jul 2024</b> | 08 Oct 2023 | 20 Dec 2022 |
| Machine Age    | hrs | Client Info |           | <b>4673</b>        | 4236        | 3524        |
| Oil Age        | hrs | Client Info |           | <b>437</b>         | 4236        | 3524        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Chngd</b>   | Changed     | Not Chngd   |
| Filter Changed |     | Client Info |           | <b>Not Chngd</b>   | Changed     | 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>3</b>     | 6        | 2        |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>2</b>     | 3        | 2        |
| 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>&lt;1</b> | 0        | <1       |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | <1       |
| Copper       | ppm    | ASTM D5185m | >75       | <b>&lt;1</b> | <1       | <1       |
| Tin          | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | 0        | 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

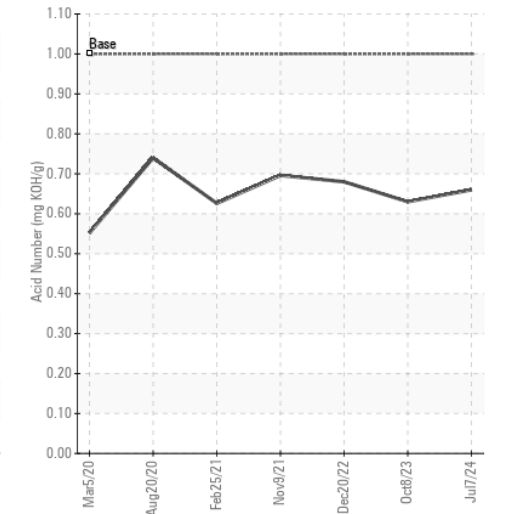
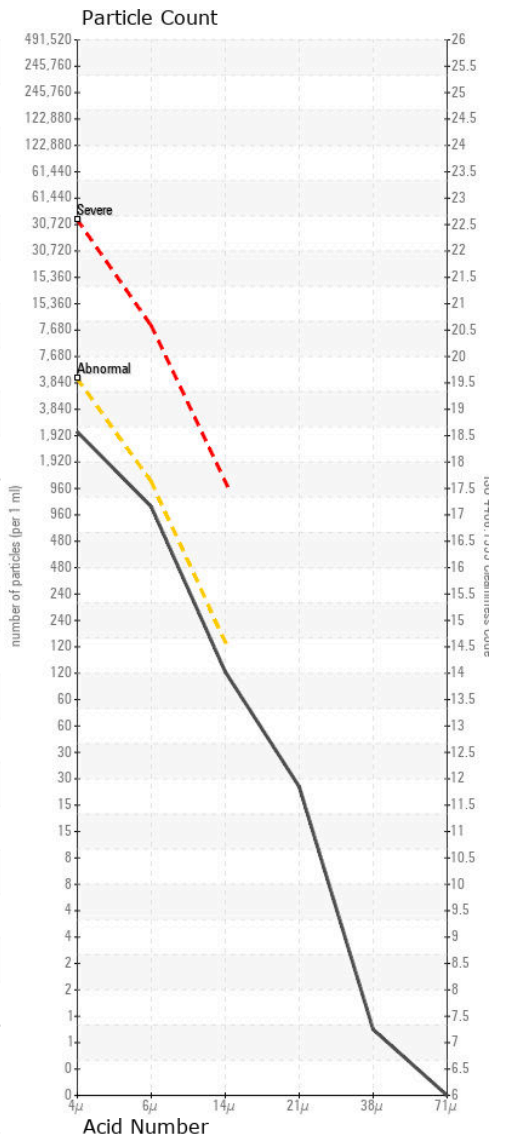
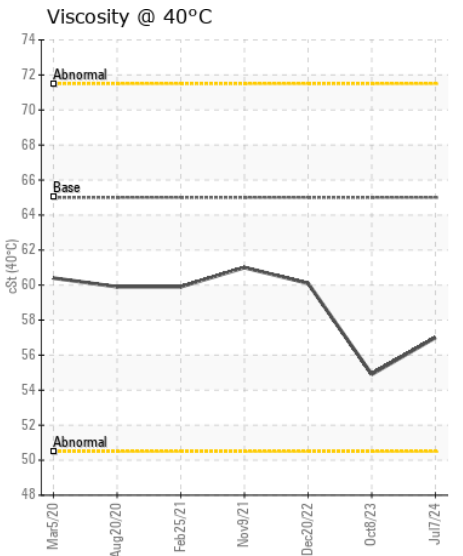
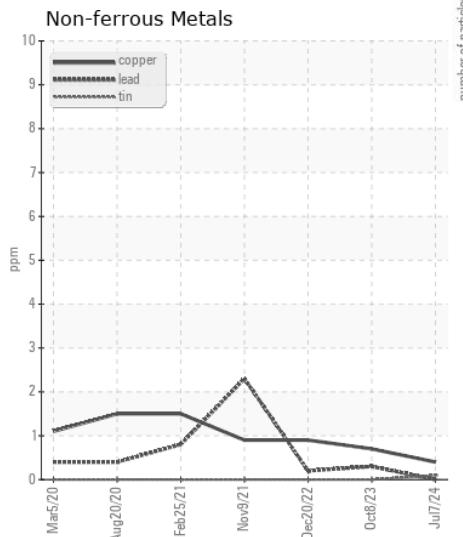
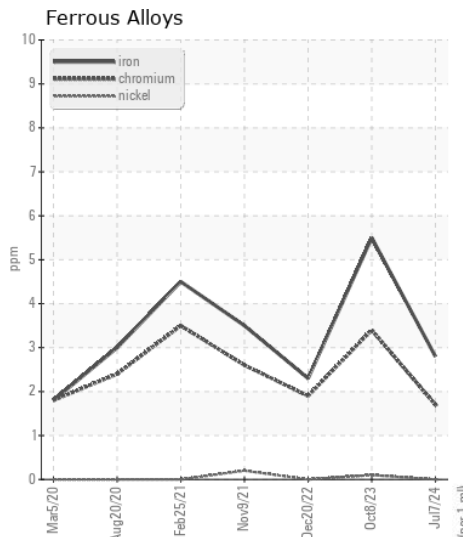
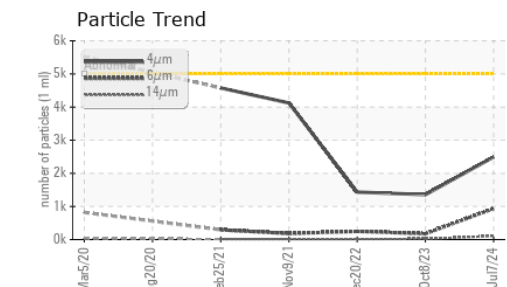
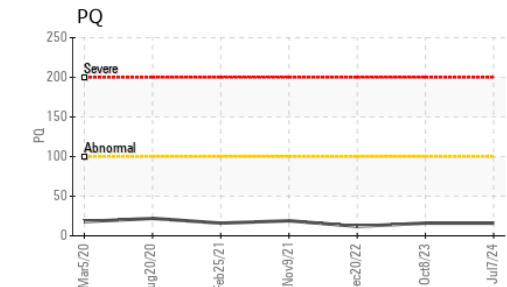
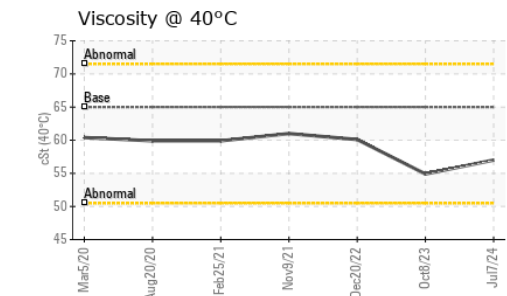
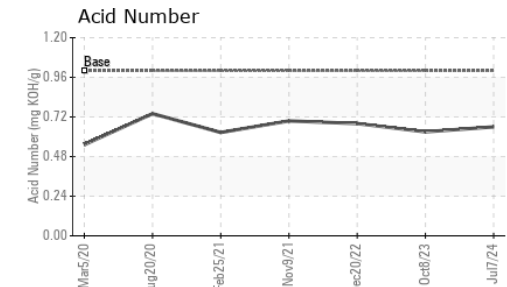
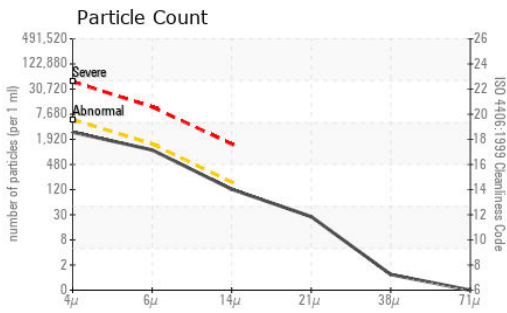
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>1</b>        | 2        | <1       |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 1        | 1        |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>2493</b>     | 1355     | 1433     |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>936</b>      | 175      | 247      |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>108</b>      | 19       | 14       |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>24</b>       | 6        | 4        |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>1</b>        | 0        | 0        |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>18/17/14</b> | 18/15/11 | 18/15/11 |
| 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>    | 0    | 1    |
| Boron            | ppm      | ASTM D5185m |      | <b>2</b>    | 6    | 0    |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>2</b>    | 7    | <1   |
| Manganese        | ppm      | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| Magnesium        | ppm      | ASTM D5185m |      | <b>10</b>   | 20   | 0    |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>96</b>   | 110  | 97   |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>644</b>  | 577  | 669  |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>774</b>  | 756  | 832  |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>1795</b> | 1710 | 1974 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>0.66</b> | 0.63 | 0.68 |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>57.0</b> | 54.9 | 60.1 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0222235 **Received** : 10 Jul 2024  
**Lab Number** : 06232182 **Tested** : 11 Jul 2024  
**Unique Number** : 11115675 **Diagnosed** : 11 Jul 2024 - Don Baldridge  
**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