



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

Area

**[05W47911]**

Machine Id

**JOHN DEERE 624L 1DW624LTLLF708606**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (23 QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0225494</b>   | JR0211031   | JR0203333   |
| Sample Date    |     | Client Info |           | <b>29 Jun 2024</b> | 20 Apr 2024 | 12 Feb 2024 |
| Machine Age    | hrs | Client Info |           | <b>8614</b>        | 8049        | 7517        |
| Oil Age        | hrs | Client Info |           | <b>565</b>         | 2000        | 1500        |
| Filter Age     | hrs | Client Info |           | <b>565</b>         | 1000        | 475         |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Filter Changed |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>19</b>    | 17       | 14       |
| Iron         | ppm    | ASTM D5185m | >500      | <b>13</b>    | 35       | 38       |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | <1       | 0        |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | 0        |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | <1       | <1       |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >25       | <b>3</b>     | 2        | 2        |
| Lead         | ppm    | ASTM D5185m | >25       | <b>4</b>     | 14       | 13       |
| Copper       | ppm    | ASTM D5185m | >100      | <b>2</b>     | 7        | 5        |
| Tin          | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | <1       |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | <1       | 0        |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |

### CONTAMINATION

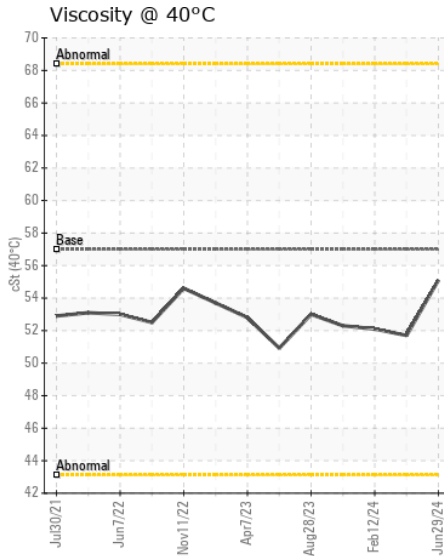
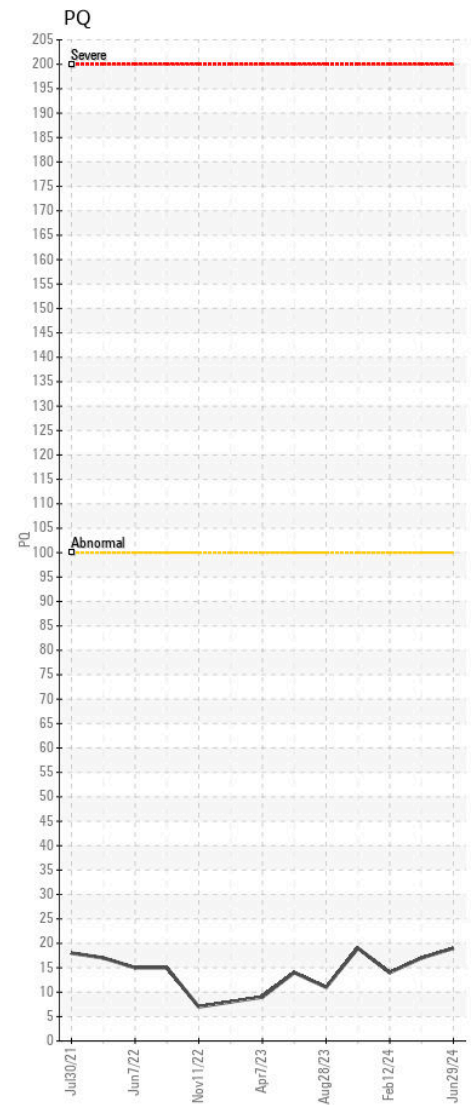
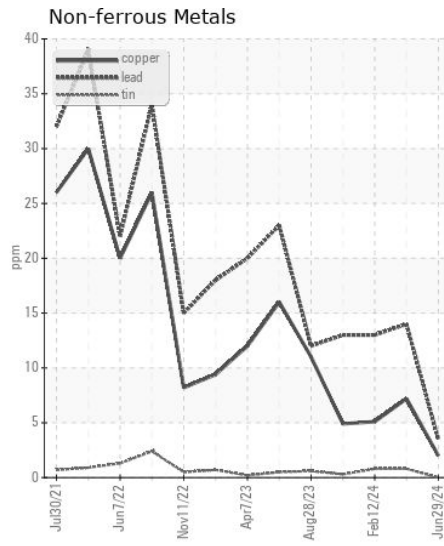
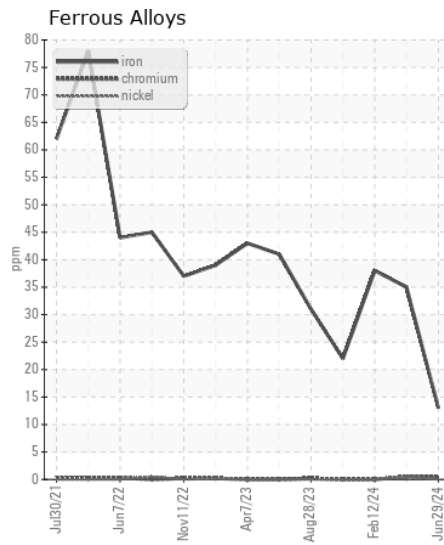
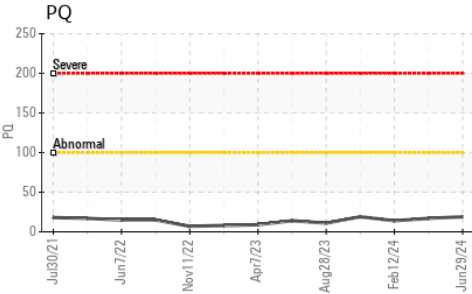
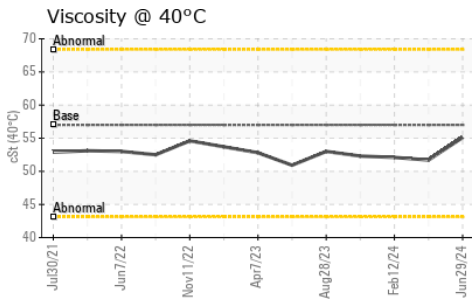
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>3</b>     | 7     | 9     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 1     | <1    |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| 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     | >.2   | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|             |     |             |      |             |      |      |
|-------------|-----|-------------|------|-------------|------|------|
| Sodium      | ppm | ASTM D5185m |      | <b>0</b>    | 1    | 2    |
| Boron       | ppm | ASTM D5185m | 6    | <b>21</b>   | 13   | 5    |
| Barium      | ppm | ASTM D5185m | 0    | <b>0</b>    | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0    | <b>7</b>    | 4    | 3    |
| Manganese   | ppm | ASTM D5185m |      | <b>0</b>    | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m | 145  | <b>110</b>  | 102  | 107  |
| Calcium     | ppm | ASTM D5185m | 3570 | <b>3012</b> | 3064 | 3058 |
| Phosphorus  | ppm | ASTM D5185m | 1290 | <b>1071</b> | 984  | 1016 |
| Zinc        | ppm | ASTM D5185m | 1640 | <b>1157</b> | 1129 | 1162 |
| Sulfur      | ppm | ASTM D5185m |      | <b>5004</b> | 4179 | 3563 |
| Visc @ 40°C | cSt | ASTM D445   | 57.0 | <b>55.1</b> | 51.7 | 52.1 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0225494 **Received** : 02 Jul 2024  
**Lab Number** : 06226525 **Tested** : 03 Jul 2024  
**Unique Number** : 11110018 **Diagnosed** : 03 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - MANASSAS PARK**  
 9107 OWENS DRIVE  
 MANASSAS PARK, VA  
 US 20111

Contact: DON VEST  
 dvest@jamesriverequipment.com  
 T: (703)631-8500  
 F: (703)631-4715

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)