



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



Area  
**[W66812]**  
 Machine Id  
**JOHN DEERE 624K-II 1DW624KZKJF685923**  
 Component  
**Front Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (5 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. ( Customer Sample Comment: W66812 )

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0215399</b>   | JR0215402   | JR0192985   |
| Sample Date    |     | Client Info |           | <b>20 May 2024</b> | 20 May 2024 | 05 Dec 2023 |
| Machine Age    | hrs | Client Info |           | <b>12138</b>       | 12138       | 11211       |
| Oil Age        | hrs | Client Info |           | <b>12138</b>       | 12138       | 11211       |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Not Chngd   |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

| Test         | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>14</b>    | 38       | 15       |
| Iron         | ppm    | ASTM D5185m | >750      | <b>19</b>    | 70       | 13       |
| Chromium     | ppm    | ASTM D5185m | >11       | <b>0</b>     | <1       | 0        |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | 0        |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | <1       | 0        |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 1        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >21       | <b>0</b>     | 3        | 0        |
| Lead         | ppm    | ASTM D5185m | >49       | <b>29</b>    | <1       | 22       |
| Copper       | ppm    | ASTM D5185m | >101      | <b>10</b>    | 1        | 8        |
| Tin          | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | <1       | <1       |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>     | <1       | <1       |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | NONE     |

### CONTAMINATION

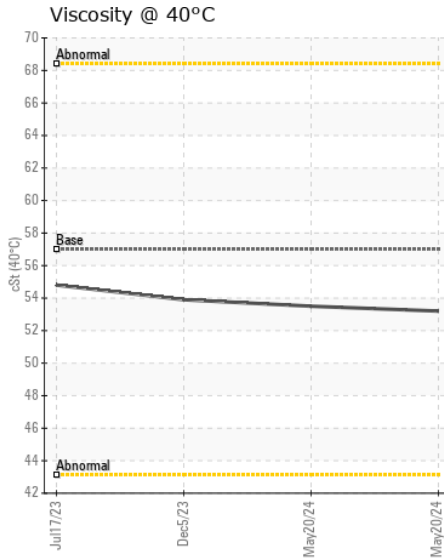
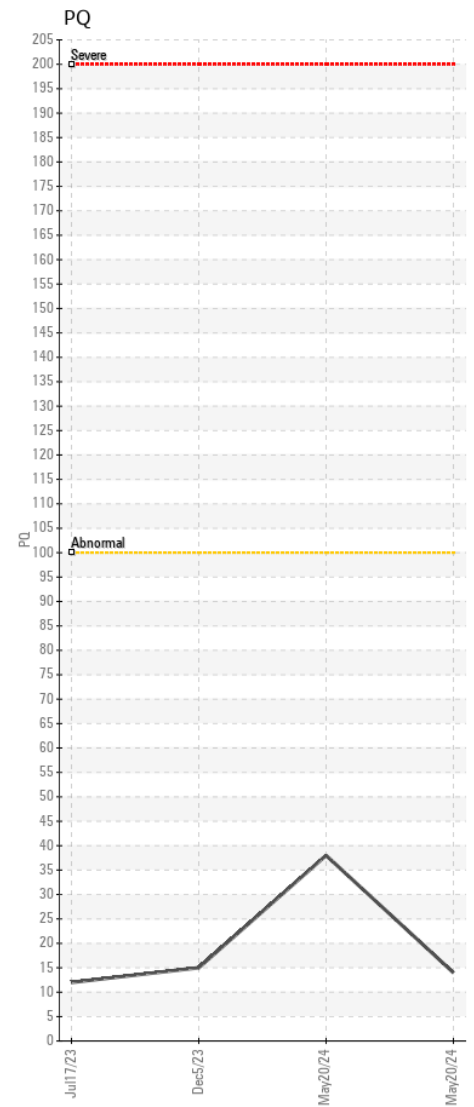
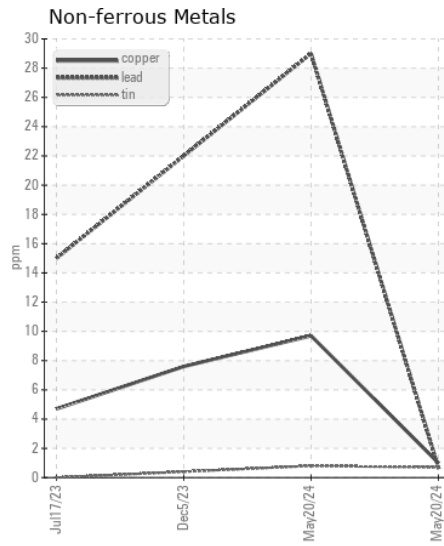
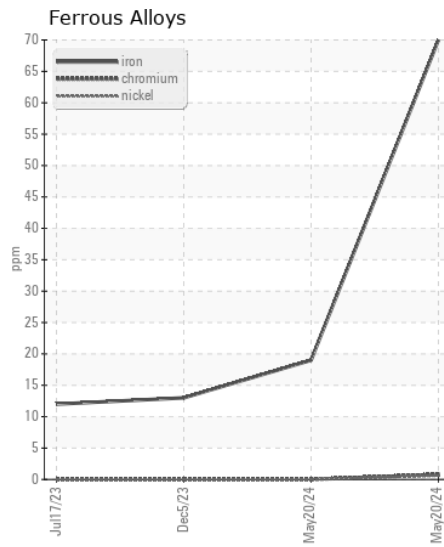
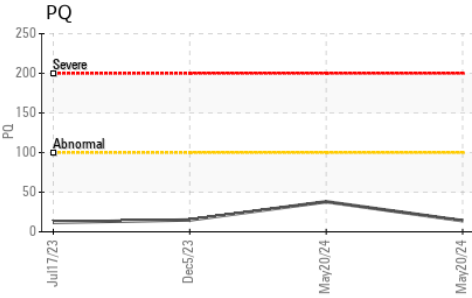
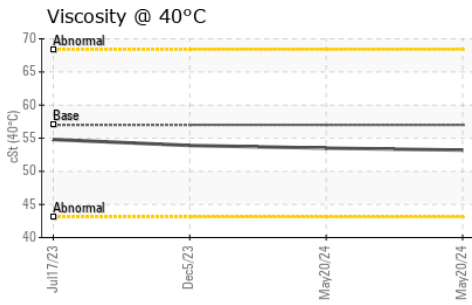
There is no indication of any contamination in the oil.

| Test             | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m | >31       | <b>3</b>     | 29       | 3        |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>&lt;1</b> | 4        | 0        |
| Water            |        | WC Method   | >0.1      | <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     | >0.1      | <b>NEG</b>   | NEG      | NEG      |

### FLUID CONDITION

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

| Test        | UOM | Method      | Limit/Abn | Current      | History1 | History2 |
|-------------|-----|-------------|-----------|--------------|----------|----------|
| Sodium      | ppm | ASTM D5185m | >51       | <b>2</b>     | 1        | 2        |
| Boron       | ppm | ASTM D5185m | 6         | <b>&lt;1</b> | 7        | 0        |
| Barium      | ppm | ASTM D5185m | 0         | <b>0</b>     | 2        | 0        |
| Molybdenum  | ppm | ASTM D5185m | 0         | <b>0</b>     | 8        | 0        |
| Manganese   | ppm | ASTM D5185m |           | <b>&lt;1</b> | 1        | <1       |
| Magnesium   | ppm | ASTM D5185m | 145       | <b>97</b>    | 101      | 92       |
| Calcium     | ppm | ASTM D5185m | 3570      | <b>3358</b>  | 3351     | 3419     |
| Phosphorus  | ppm | ASTM D5185m | 1290      | <b>1052</b>  | 989      | 1020     |
| Zinc        | ppm | ASTM D5185m | 1640      | <b>1204</b>  | 1236     | 1176     |
| Sulfur      | ppm | ASTM D5185m |           | <b>4066</b>  | 4439     | 3345     |
| Visc @ 40°C | cSt | ASTM D445   | 57.0      | <b>53.2</b>  | 53.5     | 53.9     |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215399 **Received** : 29 May 2024  
**Lab Number** : 06194272 **Tested** : 13 Jun 2024  
**Unique Number** : 11056395 **Diagnosed** : 13 Jun 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**CARLTON'S BACKHOE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: LEO

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)

T: (704)547-0211

F: