



# OIL ANALYSIS REPORT

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

Machine Id  
**JOHN DEERE 843L 1DW843LBKPL718587**

Component  
**Brake**

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

## RECOMMENDATION

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

## WEAR

All component wear rates are normal.

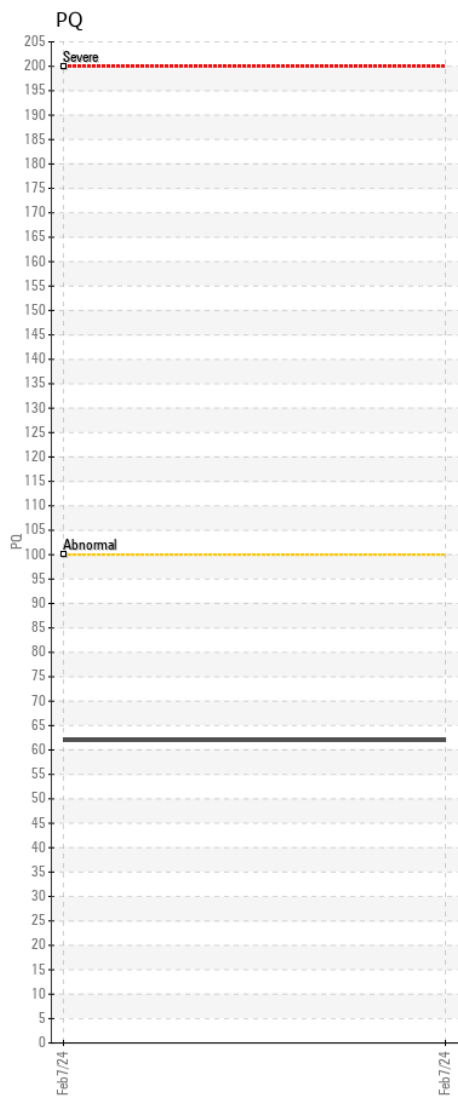
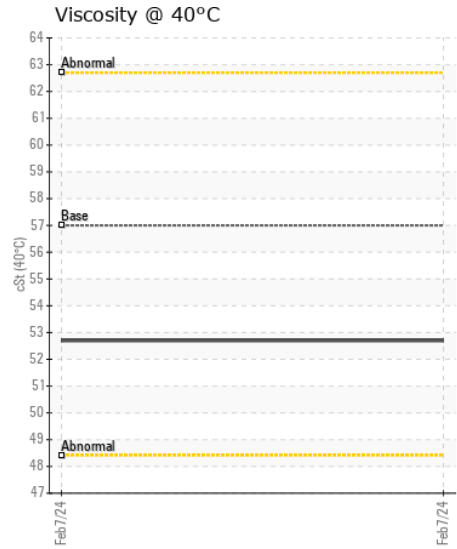
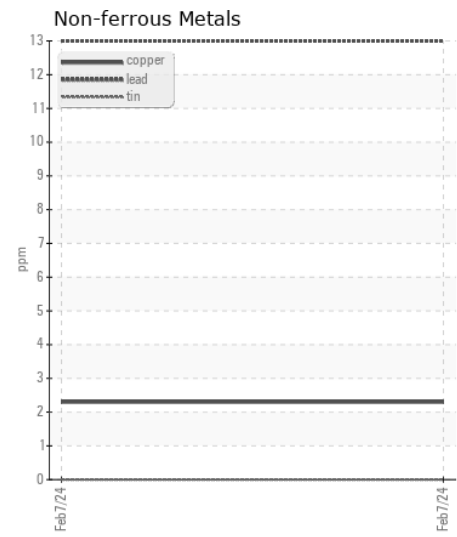
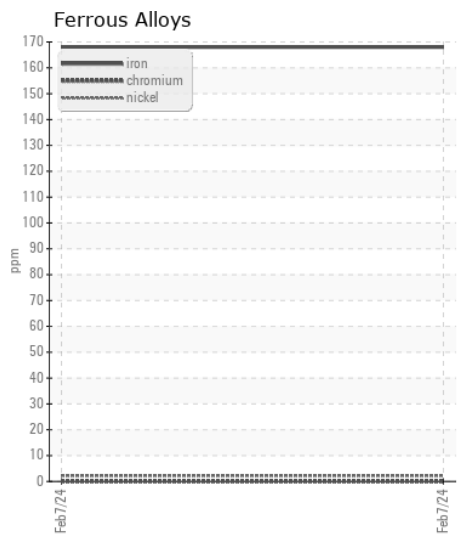
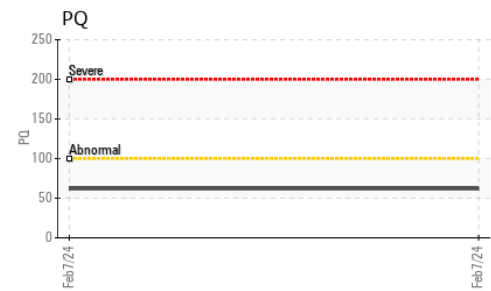
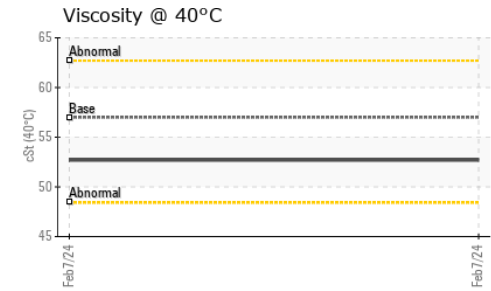
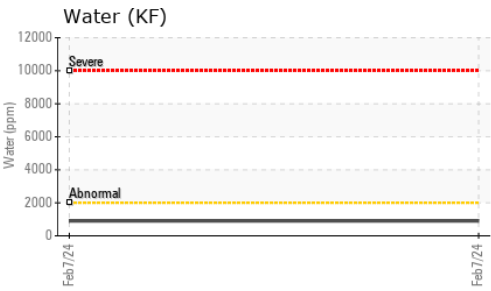
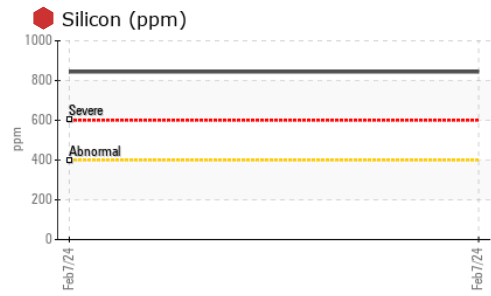
## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material.

## FLUID CONDITION

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

| Test             | UOM    | Method      | Limit/Abn | Current            | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number    |        | Client Info |           | <b>WE0006439</b>   | ---      | ---      |
| Sample Date      |        | Client Info |           | <b>07 Feb 2024</b> | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | <b>631</b>         | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed      |        | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Filter Changed   |        | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Sample Status    |        |             |           | <b>SEVERE</b>      | ---      | ---      |
| PQ               |        | ASTM D8184  |           | <b>62</b>          | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >350      | <b>168</b>         | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >5        | <b>0</b>           | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >5        | <b>2</b>           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >8        | <b>2</b>           | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >10       | <b>13</b>          | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >150      | <b>2</b>           | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >5        | <b>0</b>           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >400      | <b>844</b>         | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>4</b>           | ---      | ---      |
| Water            | %      | ASTM D6304  | >0.2      | <b>0.090</b>       | ---      | ---      |
| ppm Water        | ppm    | ASTM D6304  | >2000     | <b>900</b>         | ---      | ---      |
| Silt             | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Debris           | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Sand/Dirt        | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Appearance       | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Odor             | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Emulsified Water | scalar | *Visual     | >0.2      | <b>0.2%</b>        | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | <b>15</b>          | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 6         | <b>94</b>          | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 0         | <b>&lt;1</b>       | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 0         | <b>267</b>         | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>2</b>           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 145       | <b>468</b>         | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 3570      | <b>1305</b>        | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1290      | <b>696</b>         | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 1640      | <b>877</b>         | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m |           | <b>2461</b>        | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 57.0      | <b>52.7</b>        | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0006439  
**Lab Number** : 06086234  
**Unique Number** : 10873679  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**Received** : 12 Feb 2024  
**Tested** : 13 Feb 2024  
**Diagnosed** : 14 Feb 2024 - Jonathan Hester

**WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT**  
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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)