



# OIL ANALYSIS REPORT

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

Area  
**[A34439]**  
 Machine Id  
**JOHN DEERE 624L SIMS BARK (S/N 1DW624LTCKF696080)**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (40 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: A34439 )

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WE0005948</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>12 Feb 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>3845</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>3845</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>3545</b>        | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>ATTENTION</b>   | ---      | ---      |

## WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>12</b>    | ---      | ---      |
| Iron         | ppm    | ASTM D5185m | >20       | <b>11</b>    | ---      | ---      |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>8</b>     | ---      | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | ---      | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Aluminum     | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | ---      | ---      |
| Lead         | ppm    | ASTM D5185m | >10       | <b>0</b>     | ---      | ---      |
| Copper       | ppm    | ASTM D5185m | >75       | <b>0</b>     | ---      | ---      |
| Tin          | ppm    | ASTM D5185m | >10       | <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>  | ---      | ---      |

## CONTAMINATION

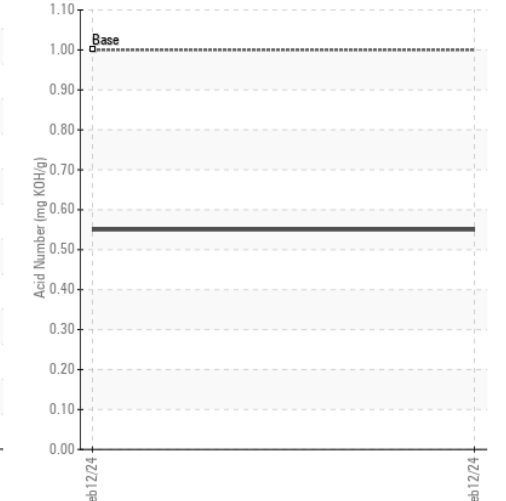
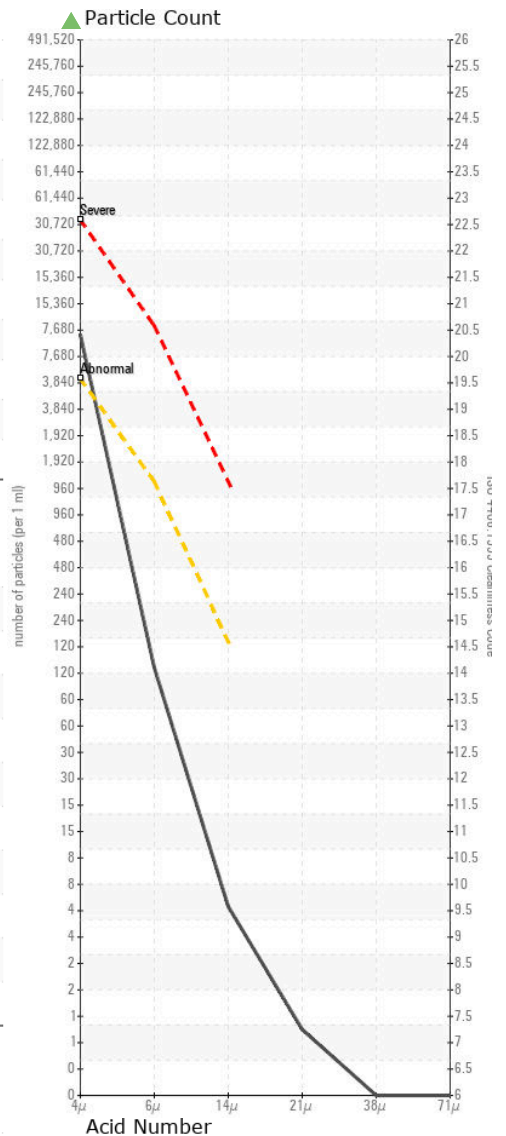
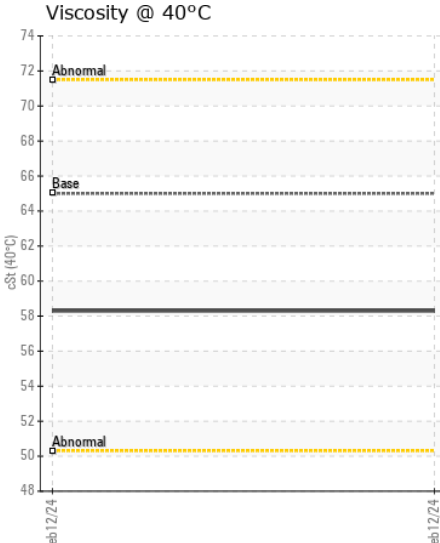
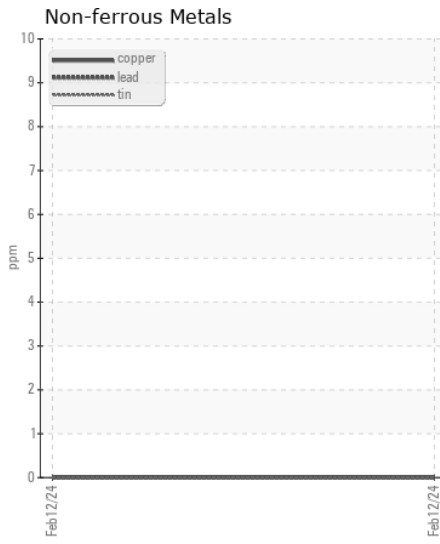
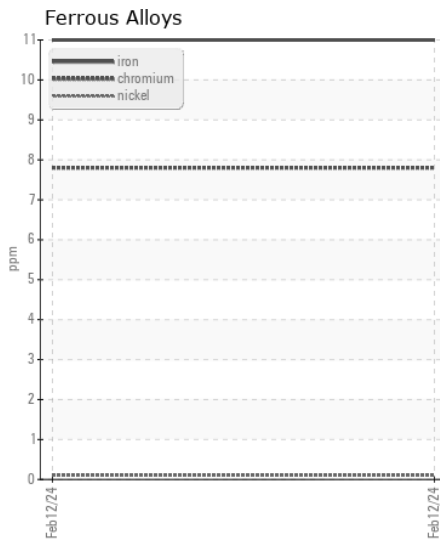
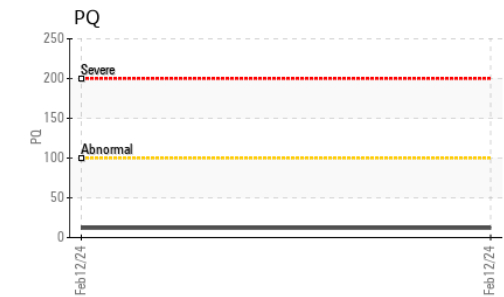
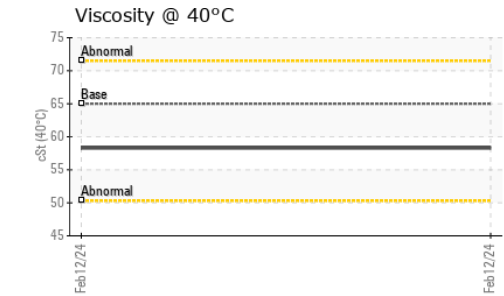
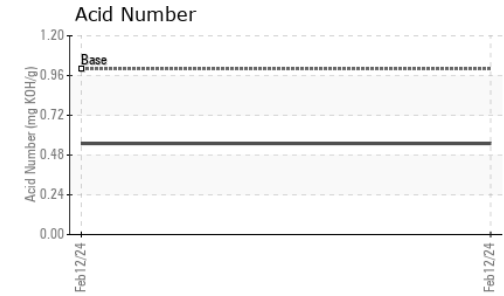
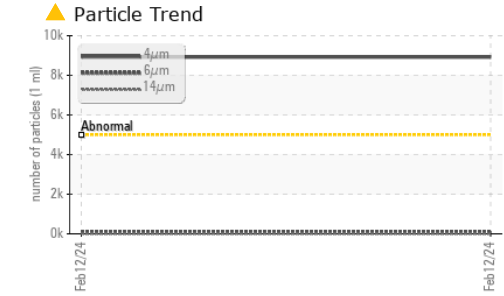
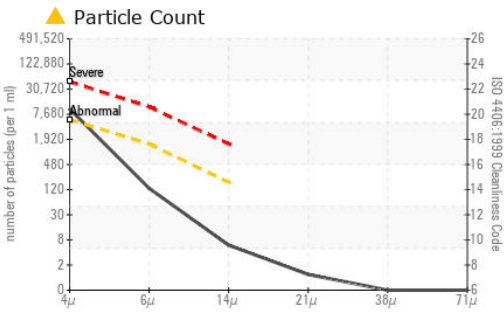
There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

|                  |        |              |           |                   |     |     |
|------------------|--------|--------------|-----------|-------------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m  | >20       | <b>3</b>          | --- | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>          | --- | --- |
| Water            |        | WC Method    | >0.1      | <b>NEG</b>        | --- | --- |
| Particles >4µm   |        | ASTM D7647   | >5000     | <b>▲ 8919</b>     | --- | --- |
| Particles >6µm   |        | ASTM D7647   | >1300     | <b>114</b>        | --- | --- |
| Particles >14µm  |        | ASTM D7647   | >160      | <b>5</b>          | --- | --- |
| Particles >21µm  |        | ASTM D7647   | >40       | <b>1</b>          | --- | --- |
| Particles >38µm  |        | ASTM D7647   | >10       | <b>0</b>          | --- | --- |
| Particles >71µm  |        | ASTM D7647   | >3        | <b>0</b>          | --- | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >19/17/14 | <b>▲ 20/14/10</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      | >0.1      | <b>NEG</b>        | --- | --- |

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

|                  |          |             |      |             |     |     |
|------------------|----------|-------------|------|-------------|-----|-----|
| Sodium           | ppm      | ASTM D5185m |      | <b>3</b>    | --- | --- |
| Boron            | ppm      | ASTM D5185m |      | <b>3</b>    | --- | --- |
| Barium           | ppm      | ASTM D5185m |      | <b>0</b>    | --- | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>2</b>    | --- | --- |
| Manganese        | ppm      | ASTM D5185m |      | <b>0</b>    | --- | --- |
| Magnesium        | ppm      | ASTM D5185m |      | <b>14</b>   | --- | --- |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>323</b>  | --- | --- |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>633</b>  | --- | --- |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>813</b>  | --- | --- |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>1993</b> | --- | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>0.55</b> | --- | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>58.3</b> | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0005948 **Received** : 14 Feb 2024  
**Lab Number** : 06088704 **Tested** : 15 Feb 2024  
**Unique Number** : 10876149 **Diagnosed** : 15 Feb 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - HUNTSVILLE**  
 25135 ONE AVIATION WAY SW  
 MADISON, AL  
 US 35756  
 Contact: BOBBY LUCKY  
 warriorparts033@gmail.com

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:  
F: