



# OIL ANALYSIS REPORT

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



Machine Id  
**JOHN DEERE 544K 140 (S/N 649252)**  
 Component  
**Front Differential**  
 Fluid  
**DURALENE Trans-Flo UTF (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>DC0034289</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>14 Feb 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>7797</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>2500</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >500 | <b>189</b>   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>2</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | --- | --- |
| Lead         | ppm    | ASTM D5185m | >25  | <b>2</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >100 | <b>40</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | <b>3</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

## CONTAMINATION

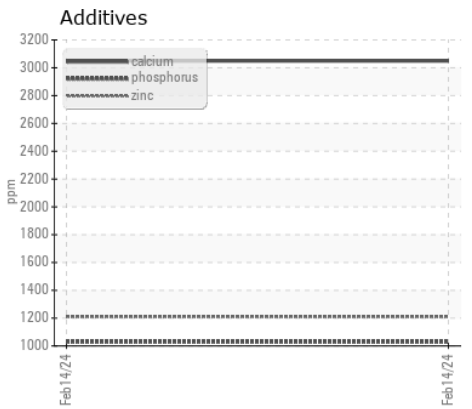
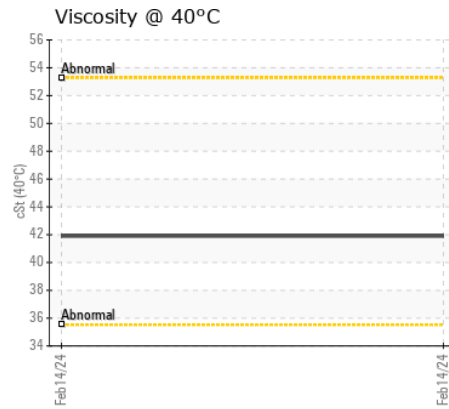
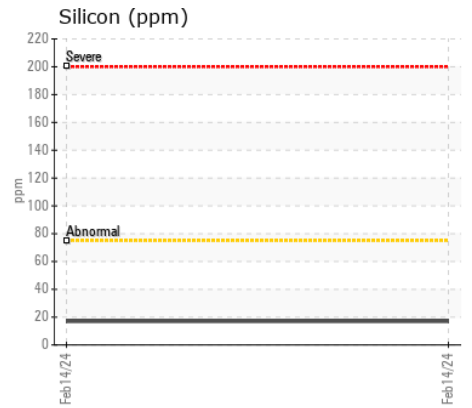
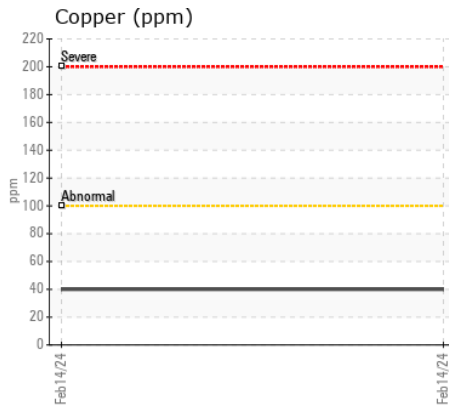
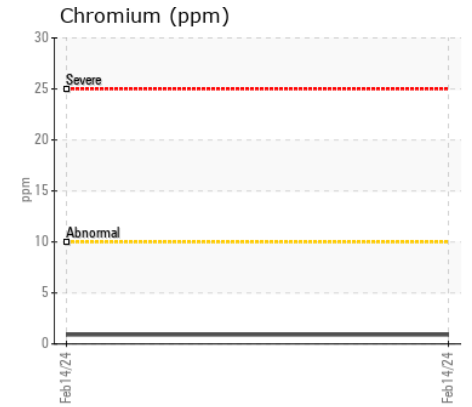
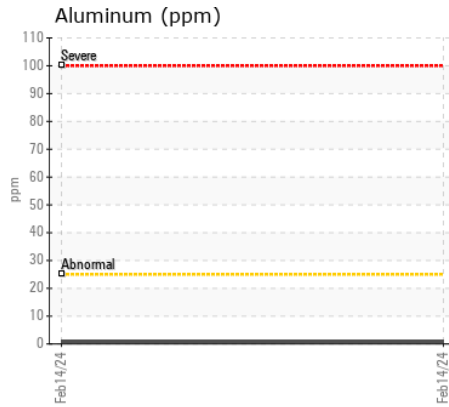
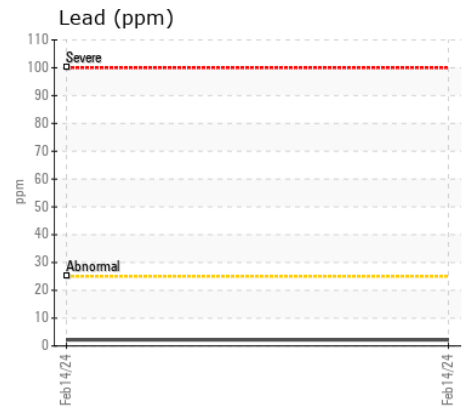
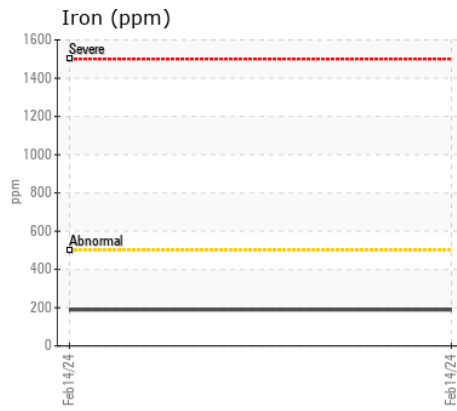
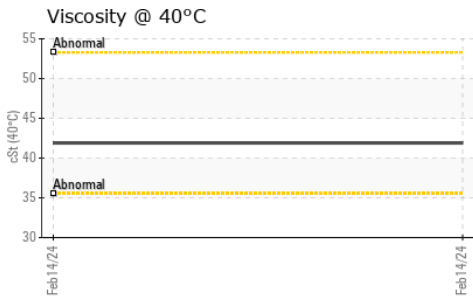
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>17</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | --- | --- |
| Water            |        | WC Method   | >.2   | <b>NEG</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     | >.2   | <b>NEG</b>   | --- | --- |

## FLUID CONDITION

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

|             |     |             |  |             |     |     |
|-------------|-----|-------------|--|-------------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>4</b>    | --- | --- |
| Boron       | ppm | ASTM D5185m |  | <b>80</b>   | --- | --- |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>2</b>    | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>2</b>    | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>34</b>   | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>3049</b> | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>1030</b> | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>1210</b> | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>4316</b> | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>41.9</b> | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : DC0034289  
**Lab Number** : 06097306  
**Unique Number** : 10890159  
**Test Package** : MOB 1

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Wes Davis

**UTILITIES UNLIMITED INC**  
 612 WEDEKINO DR  
 WOODBINE, MD  
 US 21797  
 Contact: ANDREW  
 andrew@utilitiesunlimitedinc.com  
 T: (410)591-7955  
 F:

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)