



# OIL ANALYSIS REPORT

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

Area

**[G14654]**

Machine Id

**JOHN DEERE 381796**

Component

**Front Differential**

Fluid

**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>WE0007247</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>22 Mar 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>1822</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| PQ           |        | ASTM D8184  |      | <b>286</b>   | --- | --- |
| Iron         | ppm    | ASTM D5185m | >500 | <b>162</b>   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | <b>&lt;1</b> | --- | --- |
| Lead         | ppm    | ASTM D5185m | >25  | <b>0</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >100 | <b>99</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | <b>1</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

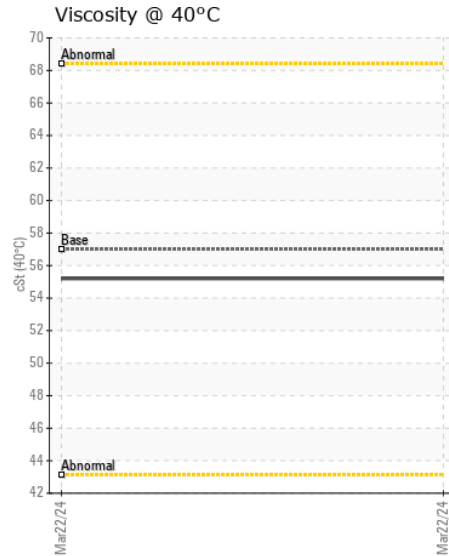
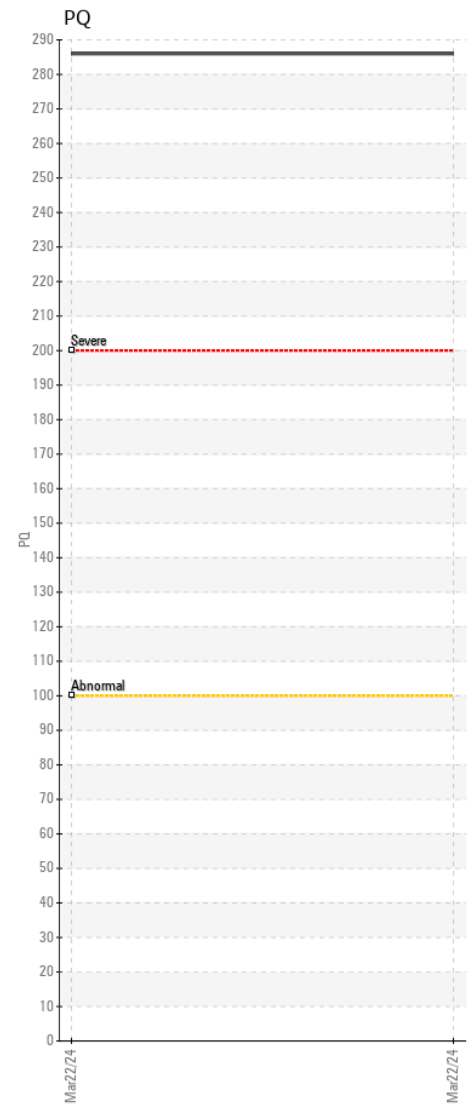
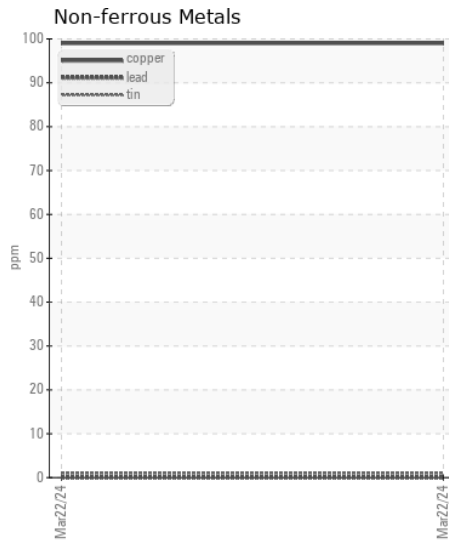
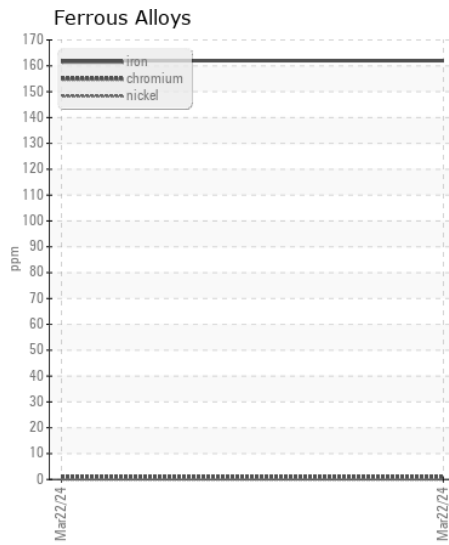
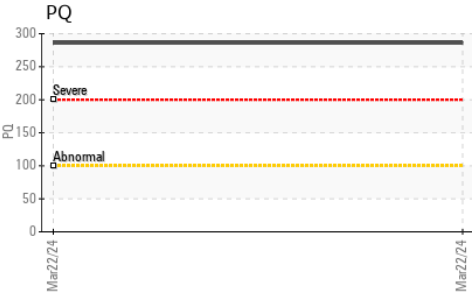
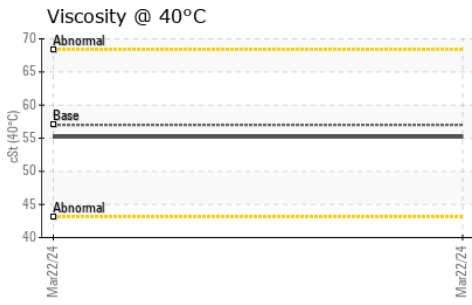
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>15</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</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>17</b>   | --- | --- |
| Boron       | ppm | ASTM D5185m | 6    | <b>110</b>  | --- | --- |
| Barium      | ppm | ASTM D5185m | 0    | <b>0</b>    | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 0    | <b>0</b>    | --- | --- |
| Manganese   | ppm | ASTM D5185m |      | <b>9</b>    | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 145  | <b>11</b>   | --- | --- |
| Calcium     | ppm | ASTM D5185m | 3570 | <b>3612</b> | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1290 | <b>1194</b> | --- | --- |
| Zinc        | ppm | ASTM D5185m | 1640 | <b>1503</b> | --- | --- |
| Sulfur      | ppm | ASTM D5185m |      | <b>3887</b> | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 57.0 | <b>55.2</b> | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WE0007247  
**Lab Number** : 06159400  
**Unique Number** : 10994823  
**Test Package** : CONST ( Additional Tests: PQ )

**WARRIOR TRACTOR AND EQUIPMENT - GRAYSVILLE**  
 4308 WATER TRAIL  
 GRAYSVILLE, AL  
 US 35073  
 Contact: BEN BYRKET  
 bbyrket@warriortractor.com  
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 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)