



# OIL ANALYSIS REPORT

|                 |        |
|-----------------|--------|
| WEAR            | NORMAL |
| CONTAMINATION   | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id  
**JOHN DEERE 944X 03734**  
Component  
**Front Right Final Drive**  
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>MT0006119</b>   | MT0005816   | ---      |
| Sample Date    |     | Client Info |           | <b>17 May 2024</b> | 24 Jan 2024 | ---      |
| Machine Age    | hrs | Client Info |           | <b>951</b>         | 469         | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

## WEAR

All component wear rates are normal.

|              |        |             |       |              |      |     |
|--------------|--------|-------------|-------|--------------|------|-----|
| PQ           |        | ASTM D8184  | >1250 | <b>13</b>    | 7    | --- |
| Iron         | ppm    | ASTM D5185m | >750  | <b>10</b>    | 8    | --- |
| Chromium     | ppm    | ASTM D5185m | >9    | <b>&lt;1</b> | <1   | --- |
| Nickel       | ppm    | ASTM D5185m | >10   | <b>&lt;1</b> | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |       | <b>&lt;1</b> | 0    | --- |
| Silver       | ppm    | ASTM D5185m |       | <b>1</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >40   | <b>1</b>     | 2    | --- |
| Lead         | ppm    | ASTM D5185m | >15   | <b>&lt;1</b> | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >40   | <b>22</b>    | 13   | --- |
| Tin          | ppm    | ASTM D5185m | >10   | <b>&lt;1</b> | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |       | <b>&lt;1</b> | 0    | --- |
| White Metal  | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE | --- |

## CONTAMINATION

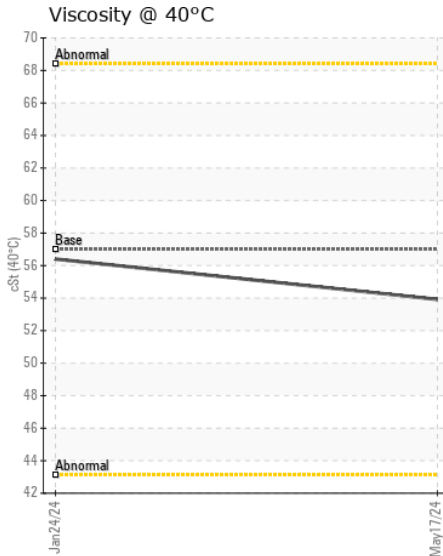
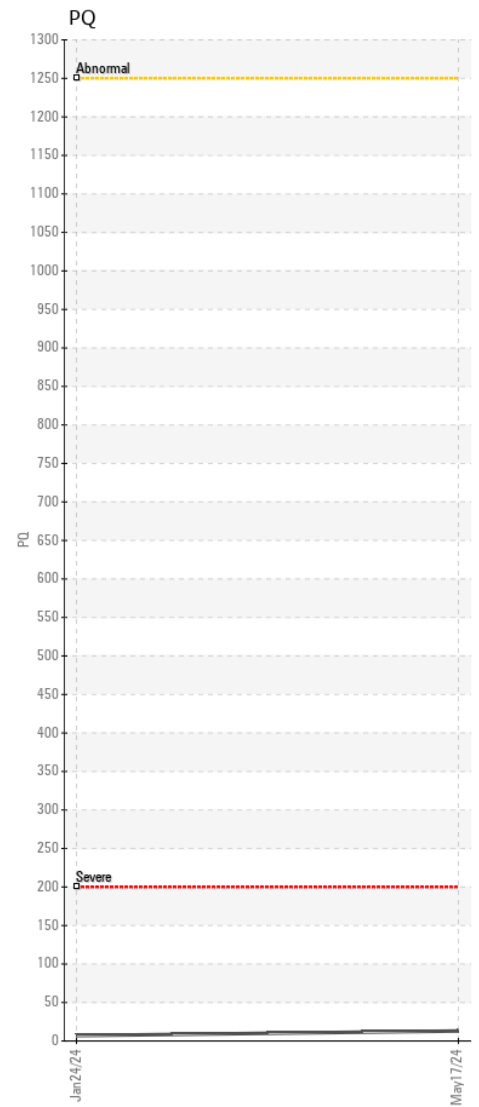
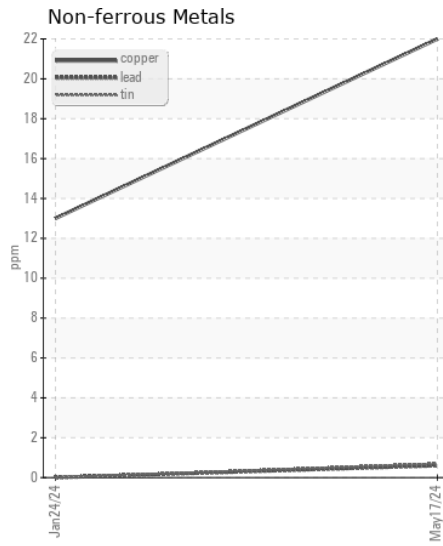
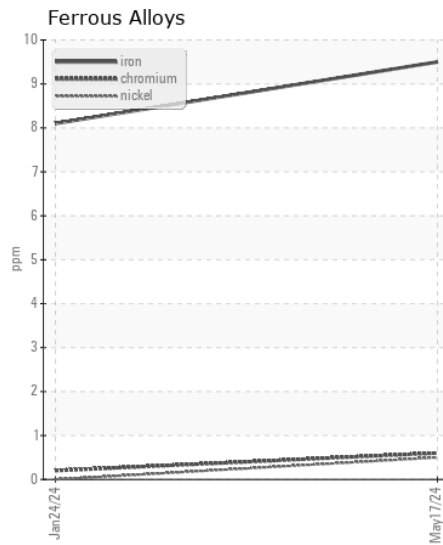
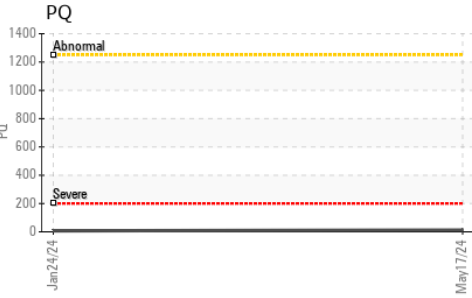
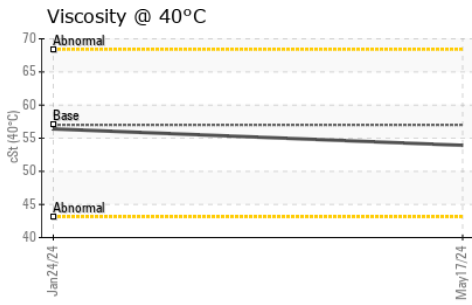
There is no indication of any contamination in the oil.

|                  |        |             |        |              |       |     |
|------------------|--------|-------------|--------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >75    | <b>21</b>    | 21    | --- |
| Potassium        | ppm    | ASTM D5185m | >20    | <b>2</b>     | 2     | --- |
| Water            |        | WC Method   | >0.075 | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE   | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE   | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE   | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML  | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML  | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.075 | <b>NEG</b>   | NEG   | --- |

## FLUID CONDITION

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

|             |     |             |      |              |      |     |
|-------------|-----|-------------|------|--------------|------|-----|
| Sodium      | ppm | ASTM D5185m | >51  | <b>&lt;1</b> | 0    | --- |
| Boron       | ppm | ASTM D5185m | 6    | <b>2</b>     | 6    | --- |
| Barium      | ppm | ASTM D5185m | 0    | <b>3</b>     | 4    | --- |
| Molybdenum  | ppm | ASTM D5185m | 0    | <b>&lt;1</b> | <1   | --- |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | <1   | --- |
| Magnesium   | ppm | ASTM D5185m | 145  | <b>106</b>   | 99   | --- |
| Calcium     | ppm | ASTM D5185m | 3570 | <b>3572</b>  | 3339 | --- |
| Phosphorus  | ppm | ASTM D5185m | 1290 | <b>1065</b>  | 1032 | --- |
| Zinc        | ppm | ASTM D5185m | 1640 | <b>1316</b>  | 1199 | --- |
| Sulfur      | ppm | ASTM D5185m |      | <b>4020</b>  | 4131 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 57.0 | <b>53.92</b> | 56.4 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MT0006119  
**Lab Number** : 06190757  
**Unique Number** : 11047509  
**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 24 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 31 May 2024 - Wes Davis

**MURPHY TRACTOR - CAMBRIDGE**  
 60611 HULSE DRIVE  
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 US 43725  
 Contact: DUSTIN DAILEY  
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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)

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