



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



Area  
**[W15467]**  
 Machine Id  
**JOHN DEERE 700K 1T0700KXCGF297619**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- QTS)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>JR0185697</b>   | JR0121453   | ---      |
| Sample Date    |     | Client Info |           | <b>08 Feb 2024</b> | 25 Feb 2022 | ---      |
| Machine Age    | hrs | Client Info |           | <b>0</b>           | 4059        | ---      |
| 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>         | N/A         | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Sample Status  |     |             |           | <b>ATTENTION</b>   | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |             |      |     |
|--------------|--------|-------------|------|-------------|------|-----|
| PQ           |        | ASTM D8184  | >50  | <b>16</b>   | 20   | --- |
| Iron         | ppm    | ASTM D5185m | >23  | <b>4</b>    | 4    | --- |
| Chromium     | ppm    | ASTM D5185m | >9   | <b>1</b>    | 2    | --- |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>    | 0    | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >9   | <b>2</b>    | <1   | --- |
| Lead         | ppm    | ASTM D5185m | >28  | <b>0</b>    | <1   | --- |
| Copper       | ppm    | ASTM D5185m | >51  | <b>8</b>    | 6    | --- |
| Tin          | ppm    | ASTM D5185m | >5   | <b>0</b>    | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b> | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b> | NONE | --- |

### CONTAMINATION

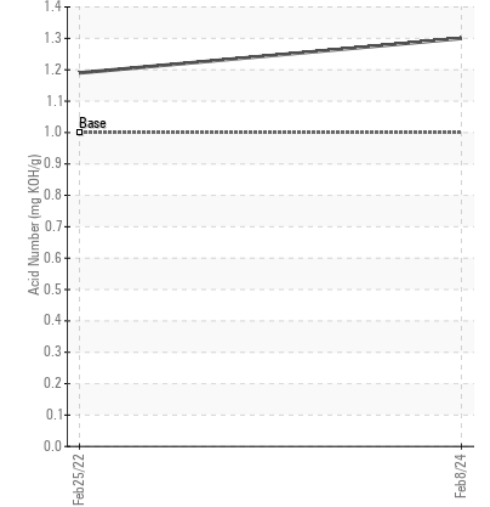
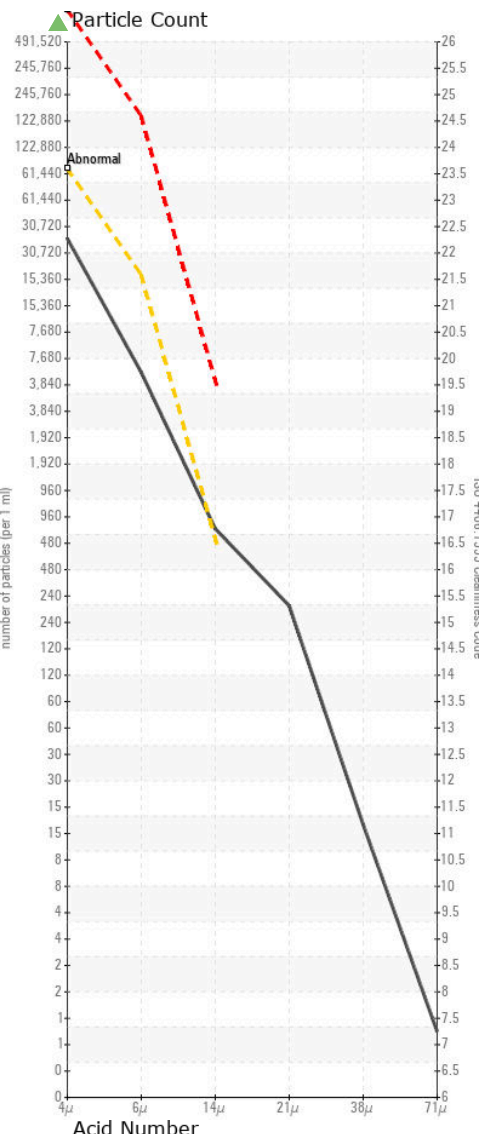
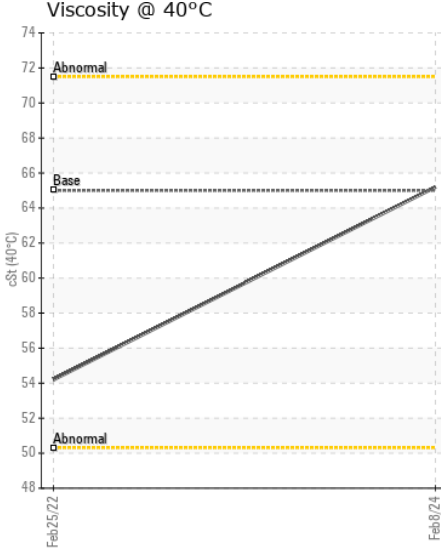
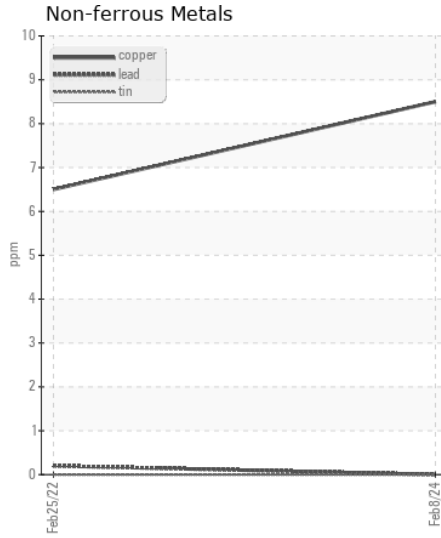
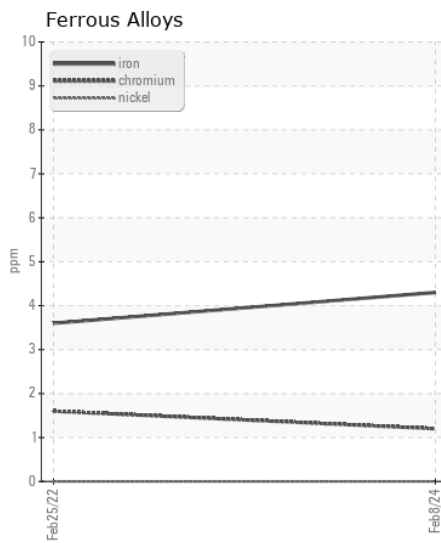
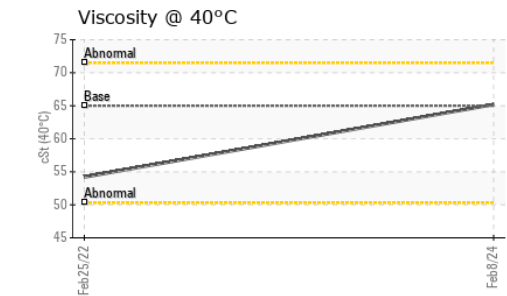
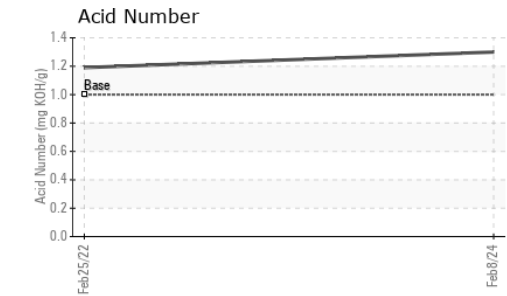
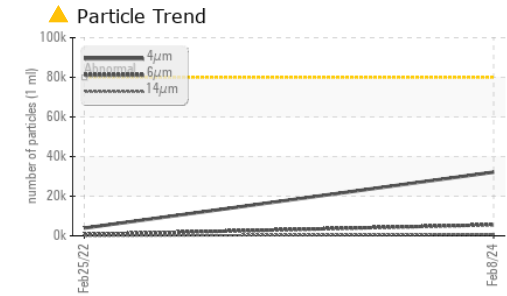
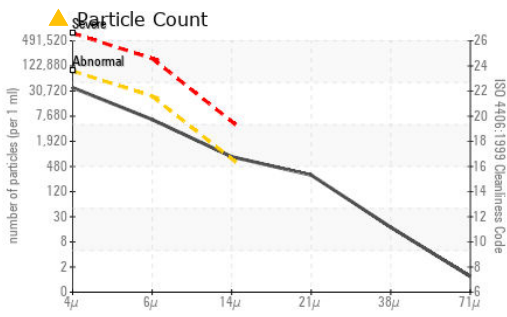
There is a moderate amount of particulates present in the oil.

|                  |        |              |           |                   |          |     |
|------------------|--------|--------------|-----------|-------------------|----------|-----|
| Silicon          | ppm    | ASTM D5185m  | >31       | <b>6</b>          | 4        | --- |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>3</b>          | 1        | --- |
| Water            |        | WC Method    | >0.075    | <b>NEG</b>        | NEG      | --- |
| Particles >4µm   |        | ASTM D7647   | >80000    | <b>32141</b>      | 3904     | --- |
| Particles >6µm   |        | ASTM D7647   | >20000    | <b>5574</b>       | 661      | --- |
| Particles >14µm  |        | ASTM D7647   | >640      | <b>▲ 720</b>      | 27       | --- |
| Particles >21µm  |        | ASTM D7647   | >160      | <b>▲ 263</b>      | 6        | --- |
| Particles >38µm  |        | ASTM D7647   | >40       | <b>15</b>         | 0        | --- |
| Particles >71µm  |        | ASTM D7647   | >10       | <b>1</b>          | 0        | --- |
| Oil Cleanliness  |        | ISO 4406 (c) | >23/21/16 | <b>▲ 22/20/17</b> | 19/17/12 | --- |
| 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

|                  |          |             |      |              |      |     |
|------------------|----------|-------------|------|--------------|------|-----|
| Sodium           | ppm      | ASTM D5185m | >21  | <b>2</b>     | 0    | --- |
| Boron            | ppm      | ASTM D5185m |      | <b>30</b>    | 4    | --- |
| Barium           | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 0    | --- |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>13</b>    | 2    | --- |
| Manganese        | ppm      | ASTM D5185m |      | <b>&lt;1</b> | <1   | --- |
| Magnesium        | ppm      | ASTM D5185m |      | <b>105</b>   | 14   | --- |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>2699</b>  | 1379 | --- |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>1005</b>  | 831  | --- |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>1126</b>  | 1048 | --- |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>3583</b>  | 2145 | --- |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>1.30</b>  | 1.19 | --- |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>65.2</b>  | 54.2 | --- |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0185697 **Received** : 13 Feb 2024  
**Lab Number** : 06087165 **Tested** : 14 Feb 2024  
**Unique Number** : 10874610 **Diagnosed** : 14 Feb 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CASTLE HAYNE**  
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Certificate L2367  
 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)