



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



Machine Id  
**JOHN DEERE 700K 1T0700KXAHF317296**  
 Component  
**Hydraulic System**  
 Fluid  
**JOHN DEERE HYDRAU (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0220128</b>   | JR0206475   | JR0178823   |
| Sample Date    |     | Client Info |           | <b>11 Jul 2024</b> | 29 Feb 2024 | 20 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>6993</b>        | 6993        | 6518        |
| Oil Age        | hrs | Client Info |           | <b>5969</b>        | 6444        | 549         |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Not Changd  | Not Changd  |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| PQ           |        | ASTM D8184  | >50  | <b>17</b>    | 15   | 6    |
| Iron         | ppm    | ASTM D5185m | >23  | <b>3</b>     | 0    | 0    |
| Chromium     | ppm    | ASTM D5185m | >9   | <b>1</b>     | 0    | <1   |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >9   | <b>3</b>     | 0    | 2    |
| Lead         | ppm    | ASTM D5185m | >28  | <b>0</b>     | 0    | <1   |
| Copper       | ppm    | ASTM D5185m | >51  | <b>4</b>     | 0    | <1   |
| Tin          | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

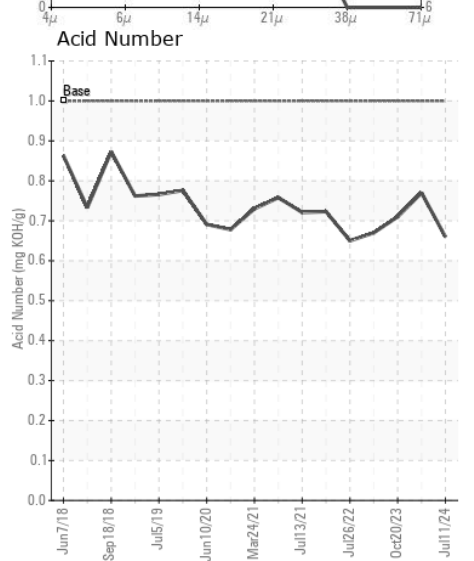
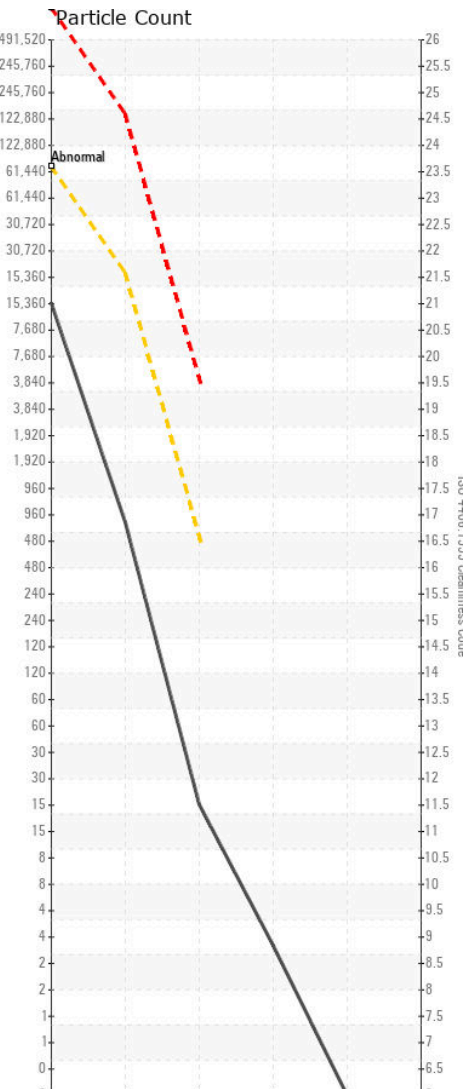
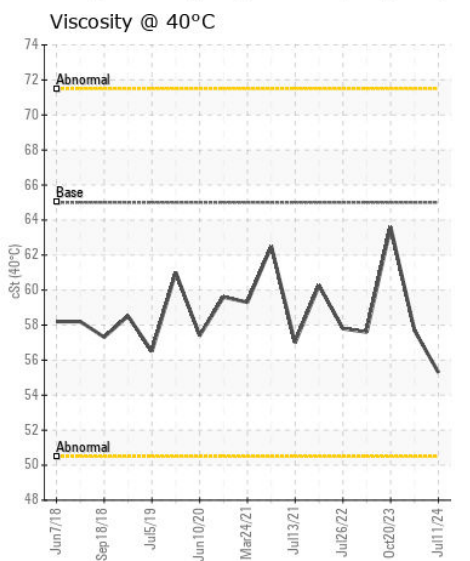
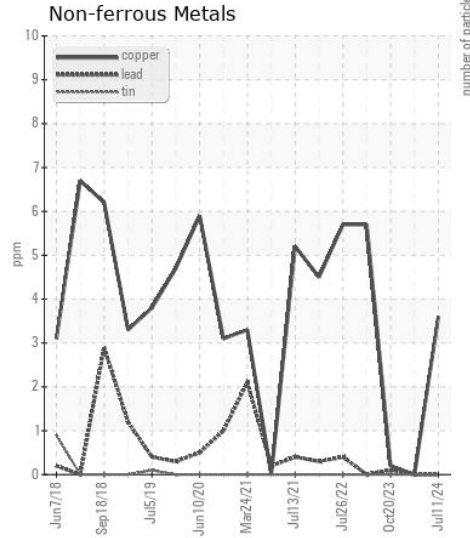
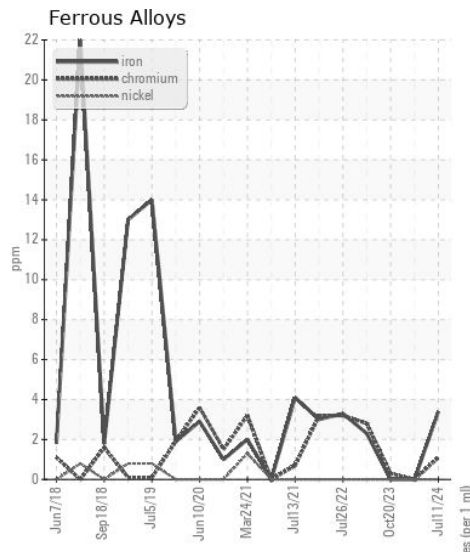
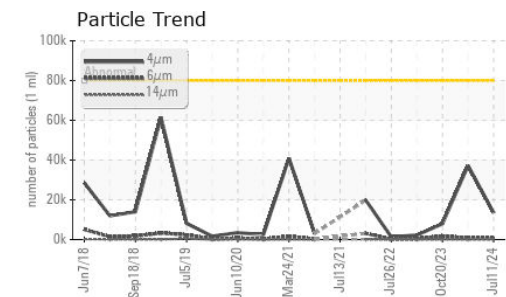
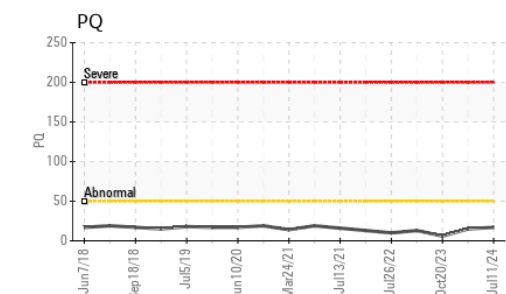
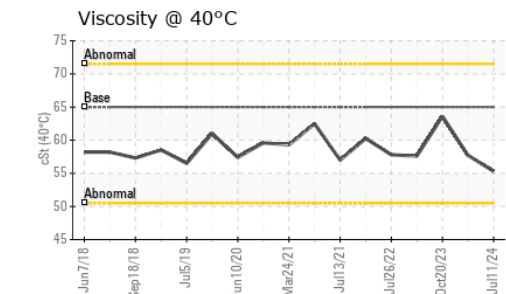
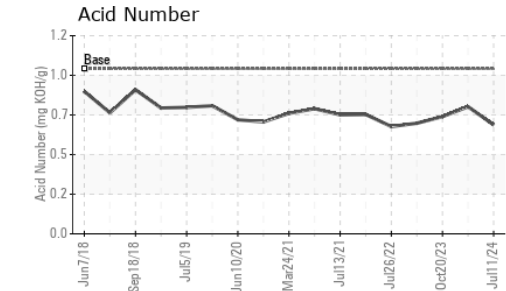
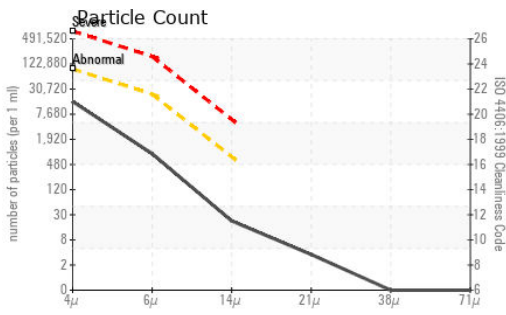
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

|                  |        |              |           |                 |          |          |
|------------------|--------|--------------|-----------|-----------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m  | >31       | <b>3</b>        | <1       | 0        |
| Potassium        | ppm    | ASTM D5185m  | >20       | <b>2</b>        | 0        | 1        |
| Water            |        | WC Method    | >0.075    | <b>NEG</b>      | NEG      | NEG      |
| Particles >4µm   |        | ASTM D7647   | >80000    | <b>13445</b>    | 37219    | 7925     |
| Particles >6µm   |        | ASTM D7647   | >20000    | <b>763</b>      | 776      | 1804     |
| Particles >14µm  |        | ASTM D7647   | >640      | <b>19</b>       | 20       | 63       |
| Particles >21µm  |        | ASTM D7647   | >160      | <b>3</b>        | 4        | 9        |
| Particles >38µm  |        | ASTM D7647   | >40       | <b>0</b>        | 0        | 0        |
| Particles >71µm  |        | ASTM D7647   | >10       | <b>0</b>        | 0        | 0        |
| Oil Cleanliness  |        | ISO 4406 (c) | >23/21/16 | <b>21/17/11</b> | 22/17/11 | 20/18/13 |
| Silt             | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Debris           | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Sand/Dirt        | scalar | *Visual      | NONE      | <b>NONE</b>     | NONE     | NONE     |
| Appearance       | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Odor             | scalar | *Visual      | NORML     | <b>NORML</b>    | NORML    | NORML    |
| Emulsified Water | scalar | *Visual      | >0.075    | <b>NEG</b>      | NEG      | 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>0</b>     | 0    | 0    |
| Boron            | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 8    |
| Barium           | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 1    | 9    |
| Molybdenum       | ppm      | ASTM D5185m |      | <b>&lt;1</b> | 0    | 8    |
| Manganese        | ppm      | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Magnesium        | ppm      | ASTM D5185m |      | <b>3</b>     | 4    | 24   |
| Calcium          | ppm      | ASTM D5185m | 87   | <b>77</b>    | 78   | 126  |
| Phosphorus       | ppm      | ASTM D5185m | 727  | <b>554</b>   | 660  | 634  |
| Zinc             | ppm      | ASTM D5185m | 900  | <b>761</b>   | 738  | 853  |
| Sulfur           | ppm      | ASTM D5185m | 1500 | <b>1330</b>  | 1287 | 1783 |
| Acid Number (AN) | mg KOH/g | ASTM D8045  | 1.0  | <b>0.66</b>  | 0.77 | 0.71 |
| Visc @ 40°C      | cSt      | ASTM D445   | 65   | <b>55.3</b>  | 57.7 | 63.6 |



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0220128 **Received** : 15 Jul 2024  
**Lab Number** : 06235801 **Tested** : 16 Jul 2024  
**Unique Number** : 11124635 **Diagnosed** : 16 Jul 2024 - Wes Davis  
**Test Package** : CONST ( Additional Tests: PQ )

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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)