



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

### [H&M QUALITY]

Machine Id  
**JOHN DEERE 748L PM151063 (S/N 717590)**

Component  
**Rear Differential**

Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

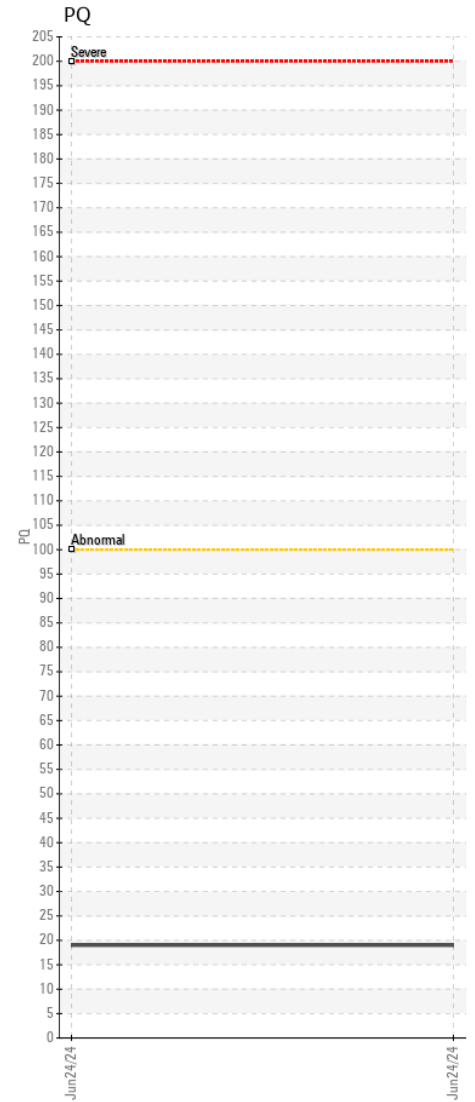
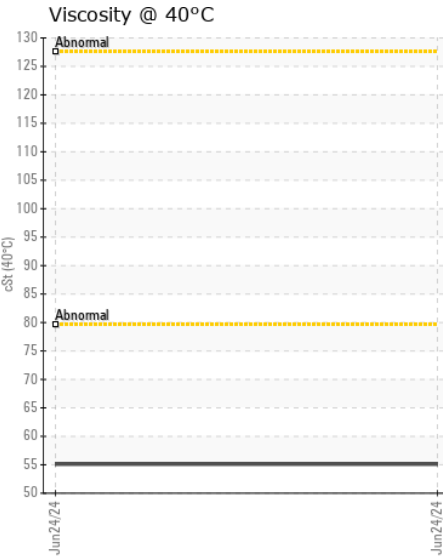
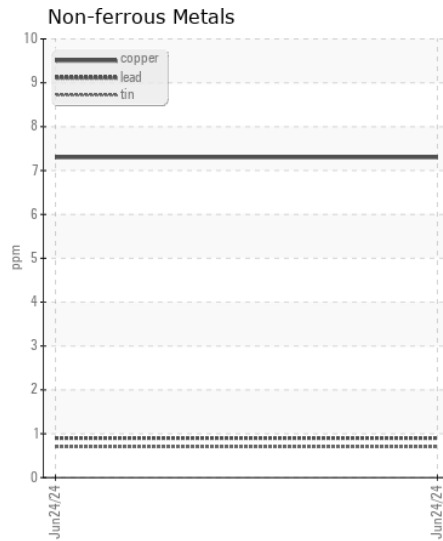
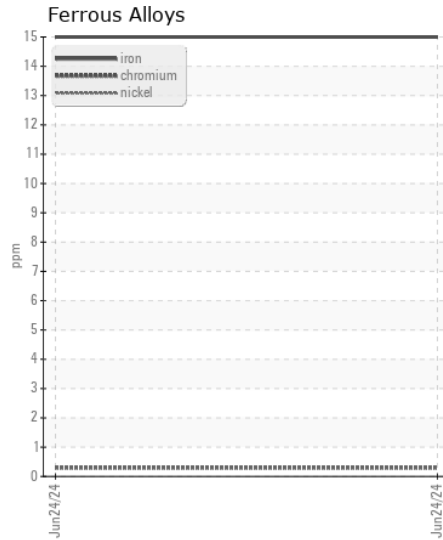
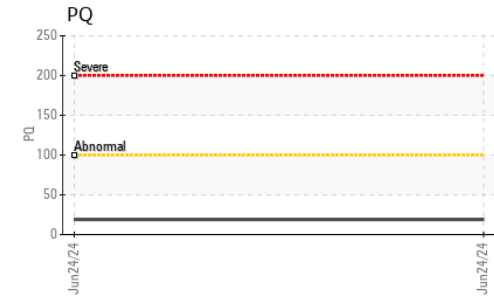
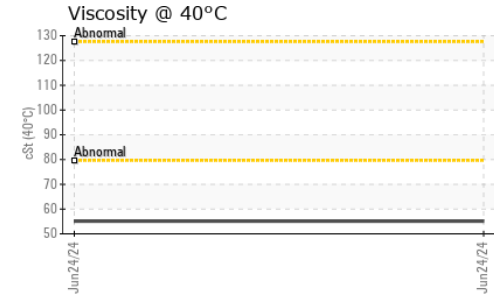
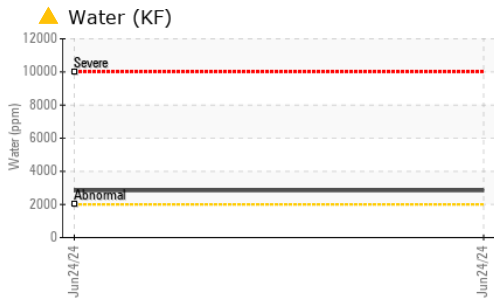
### CONTAMINATION

There is a light concentration of water present in the oil.

### FLUID CONDITION

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

| Test             | UOM    | Method      | Limit/Abn | Current            | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number    |        | Client Info |           | <b>JR0177111</b>   | ---      | ---      |
| Sample Date      |        | Client Info |           | <b>24 Jun 2024</b> | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | <b>553</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>MARGINAL</b>    | ---      | ---      |
| PQ               |        | ASTM D8184  |           | <b>19</b>          | ---      | ---      |
| Iron             | ppm    | ASTM D5185m | >500      | <b>15</b>          | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <b>&lt;1</b>       | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | <b>&lt;1</b>       | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | <b>3</b>           | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >25       | <b>&lt;1</b>       | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >100      | <b>7</b>           | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | <b>&lt;1</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>        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185m | >75       | <b>4</b>           | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>2</b>           | ---      | ---      |
| Water            | %      | ASTM D6304  | >.2       | <b>▲ 0.284</b>     | ---      | ---      |
| ppm Water        | ppm    | ASTM D6304  | >2000     | <b>▲ 2840</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>0.2%</b>        | ---      | ---      |
| Sodium           | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Boron            | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Barium           | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m |           | <b>1</b>           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m |           | <b>88</b>          | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m |           | <b>3366</b>        | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m |           | <b>1041</b>        | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m |           | <b>1215</b>        | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m |           | <b>4348</b>        | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   |           | <b>55.1</b>        | ---      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0177111 **Received** : 01 Jul 2024  
**Lab Number** : 06224818 **Tested** : 02 Jul 2024  
**Unique Number** : 11103015 **Diagnosed** : 02 Jul 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF, PQ )

**JRE - MOUNT GILEAD**  
 305 NORTH MAIN STREET  
 MOUNT GILEAD, NC  
 US 27306

Contact: TIM ELSWORTH  
 telsworth@jamesriverequipment.com

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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