



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

Machine Id  
**JOHN DEERE 310SL 1T0310SLPNF420411**

Component  
**Front Right 6WD Hub**

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>JR0208902</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>22 Apr 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>685</b>         | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>685</b>         | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

**WEAR**

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>92</b>    | ---      | ---      |
| Iron         | ppm    | ASTM D5185m | >200      | <b>91</b>    | ---      | ---      |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>5</b>     | ---      | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | ---      | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>1</b>     | ---      | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Aluminum     | ppm    | ASTM D5185m |           | <b>2</b>     | ---      | ---      |
| Lead         | ppm    | ASTM D5185m |           | <b>0</b>     | ---      | ---      |
| Copper       | ppm    | ASTM D5185m |           | <b>5</b>     | ---      | ---      |
| Tin          | ppm    | ASTM D5185m |           | <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>  | ---      | ---      |

**CONTAMINATION**

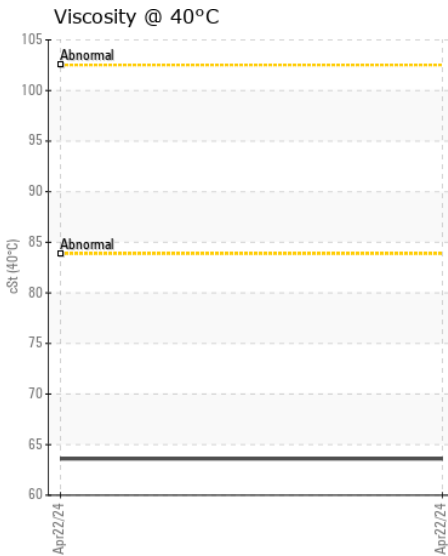
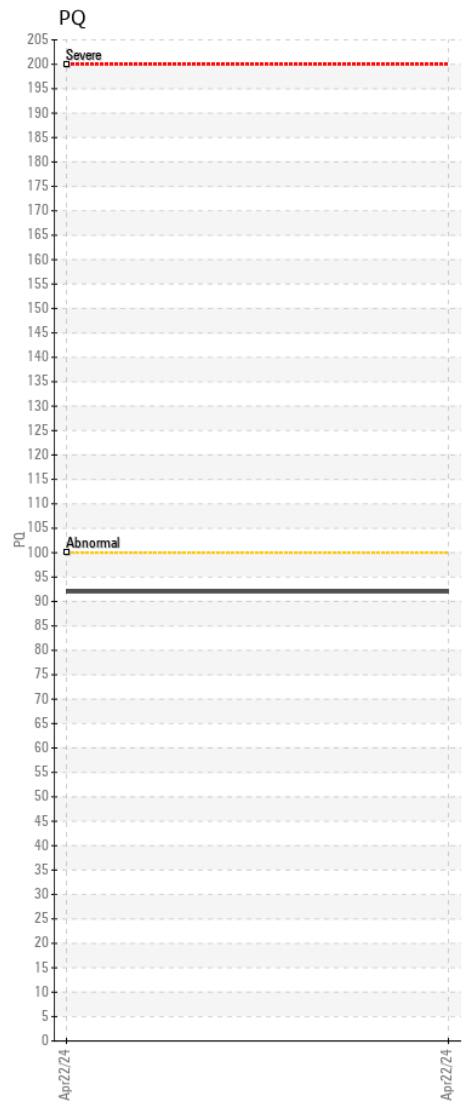
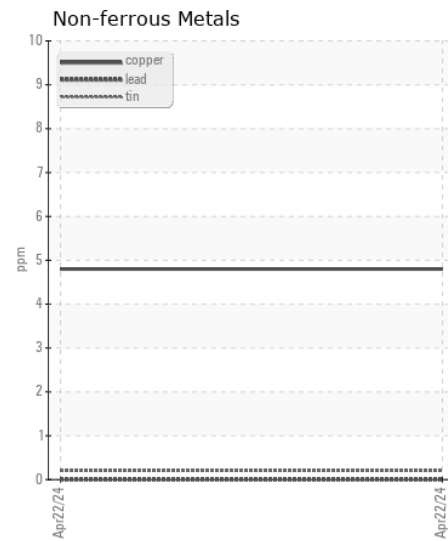
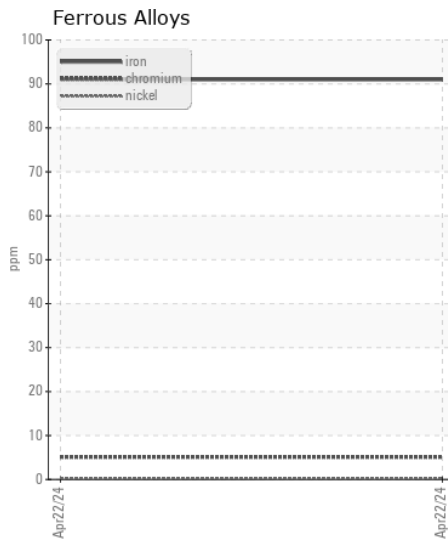
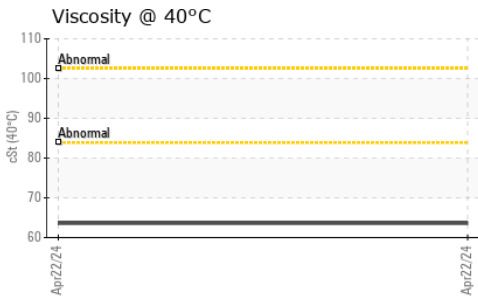
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m |       | <b>14</b>    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>4</b>     | --- | --- |
| Water            |        | WC Method   | >0.2  | <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     | >0.2  | <b>NEG</b>   | --- | --- |

**FLUID CONDITION**

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

|             |     |             |  |              |     |     |
|-------------|-----|-------------|--|--------------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>15</b>    | --- | --- |
| Boron       | ppm | ASTM D5185m |  | <b>114</b>   | --- | --- |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>     | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>4</b>     | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>15</b>    | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>3482</b>  | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>1133</b>  | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>1453</b>  | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>3796</b>  | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>63.6</b>  | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0208902 **Received** : 23 Apr 2024  
**Lab Number** : 06157938 **Tested** : 24 Apr 2024  
**Unique Number** : 10993361 **Diagnosed** : 25 Apr 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GREENVILLE**  
 3604 HIGHWAY 264 E  
 GREENVILLE, NC  
 US 27834-5800

Contact: GREENVILLE SHOP  
 christopher.martin@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)

T:  
 F: