



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

Machine Id  
**JOHN DEERE 624 P 1DW624PACPLX19407**  
 Component  
**Rear Axle**  
 Fluid  
**JOHN DEERE HY-GARD HYD/TRANS (--- GAL)**

### 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>JR0200284</b>   | JR0179131   | ---      |
| Sample Date    |     | Client Info |           | <b>04 Jan 2024</b> | 19 Oct 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>947</b>         | 480         | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 480         | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 480         | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Not Changed | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ABNORMAL    | ---      |

### WEAR

Bearing and/or bushing wear is indicated.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>16</b>    | 24       | ---      |
| Iron         | ppm    | ASTM D5185m | >750      | <b>63</b>    | 114      | ---      |
| Chromium     | ppm    | ASTM D5185m | >11       | <b>&lt;1</b> | <1       | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>     | <1       | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>     | <1       | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>     | 0        | ---      |
| Aluminum     | ppm    | ASTM D5185m | >21       | <b>0</b>     | 2        | ---      |
| Lead         | ppm    | ASTM D5185m | >49       | <b>14</b>    | ▲ 69     | ---      |
| Copper       | ppm    | ASTM D5185m | >101      | ▲ <b>108</b> | ▲ 111    | ---      |
| Tin          | ppm    | ASTM D5185m | >10       | <b>1</b>     | <1       | ---      |
| 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

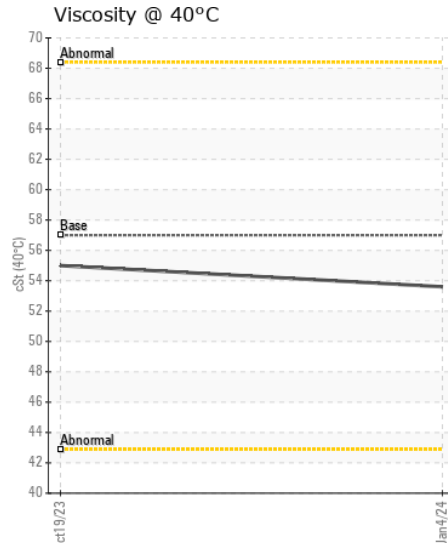
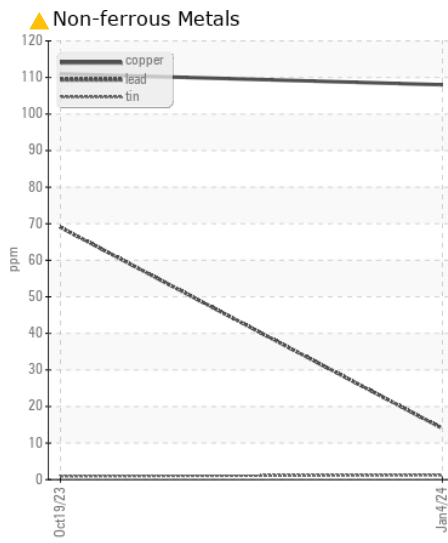
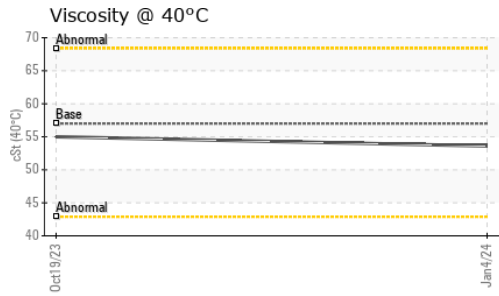
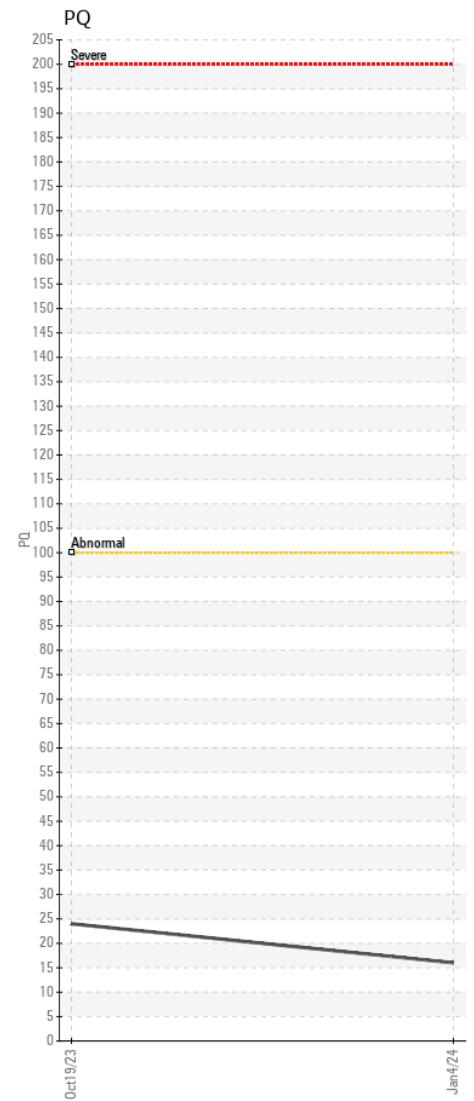
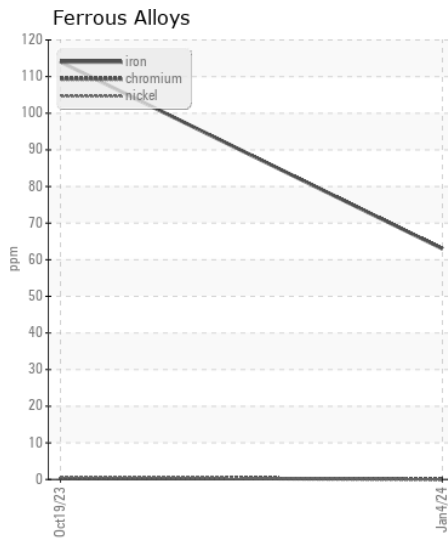
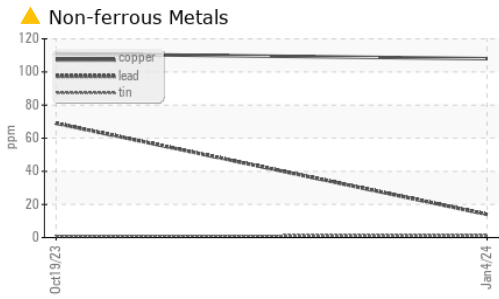
There is no indication of any contamination in the oil.

| Test             | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m | >31       | <b>4</b>     | 6        | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>&lt;1</b> | 3        | ---      |
| Water            |        | WC Method   | >0.1      | <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     | >0.1      | <b>NEG</b>   | NEG      | ---      |

### FLUID CONDITION

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

| Test        | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|-------------|-----|-------------|-----------|-------------|----------|----------|
| Sodium      | ppm | ASTM D5185m | >51       | <b>8</b>    | 3        | ---      |
| Boron       | ppm | ASTM D5185m | 6         | <b>3</b>    | 2        | ---      |
| Barium      | ppm | ASTM D5185m | 0         | <b>2</b>    | 13       | ---      |
| Molybdenum  | ppm | ASTM D5185m | 0         | <b>0</b>    | <1       | ---      |
| Manganese   | ppm | ASTM D5185m |           | <b>2</b>    | 3        | ---      |
| Magnesium   | ppm | ASTM D5185m | 145       | <b>92</b>   | 91       | ---      |
| Calcium     | ppm | ASTM D5185m | 3570      | <b>3288</b> | 3455     | ---      |
| Phosphorus  | ppm | ASTM D5185m | 1290      | <b>997</b>  | 1085     | ---      |
| Zinc        | ppm | ASTM D5185m | 1640      | <b>1156</b> | 1228     | ---      |
| Sulfur      | ppm | ASTM D5185m |           | <b>3467</b> | 4554     | ---      |
| Visc @ 40°C | cSt | ASTM D445   | 57.0      | <b>53.6</b> | 55.0     | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0200284 **Received** : 09 Jan 2024  
**Lab Number** : 06055579 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821528 **Diagnostician** : Sean Felton  
**Test Package** : CONST ( Additional Tests: PQ )

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)

**JRE - ASHLAND**  
 11047 LEADBETTER RD  
 ASHLAND, VA  
 US 23005  
 Contact: DAVID ZIEG  
 dzieg@jamesriverequipment.com  
 T: (804)798-6001  
 F: (804)798-0292