



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

Machine Id  
**JOHN DEERE 624P 1DW624PAHMLZ10763**  
 Component  
**Front Differential**  
 Fluid  
**TDH FLUID SAE 75W80 (--- 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>JR0223400</b>   | JR0196914   | JR0143525   |
| Sample Date    |     | Client Info |           | <b>30 Jun 2024</b> | 23 Feb 2024 | 14 Oct 2022 |
| Machine Age    | hrs | Client Info |           | <b>3062</b>        | 2596        | 1557        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 3973        | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 1000        | 0           |
| Oil Changed    |     | Client Info |           | <b>N/A</b>         | Not Changd  | N/A         |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | N/A         |
| Sample Status  |     |             |           | <b>ABNORMAL</b>    | ABNORMAL    | ABNORMAL    |

### WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>15</b>    | 14       | 12       |
| Iron         | ppm    | ASTM D5185m | >500      | <b>52</b>    | 53       | 58       |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | 0        | 0        |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>&lt;1</b> | 0        | 0        |
| Titanium     | ppm    | ASTM D5185m |           | <b>&lt;1</b> | <1       | <1       |
| Silver       | ppm    | ASTM D5185m |           | <b>&lt;1</b> | 0        | 0        |
| Aluminum     | ppm    | ASTM D5185m | >25       | <b>3</b>     | 2        | 1        |
| Lead         | ppm    | ASTM D5185m | >25       | <b>9</b>     | 9        | 14       |
| Copper       | ppm    | ASTM D5185m | >100      | <b>▲ 457</b> | ▲ 317    | ▲ 296    |
| Tin          | ppm    | ASTM D5185m | >10       | <b>1</b>     | 1        | 3        |
| 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

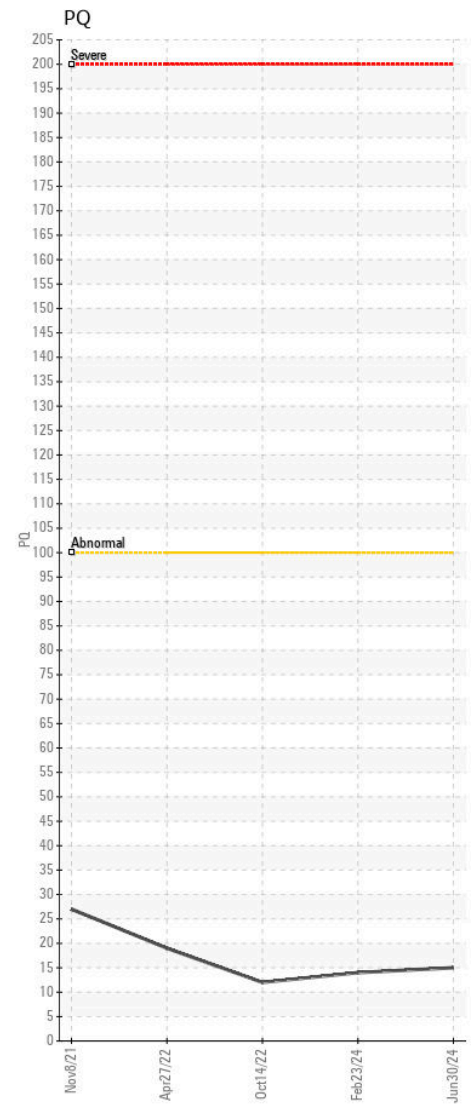
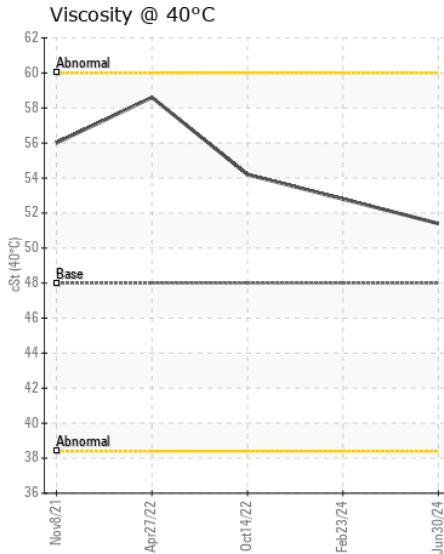
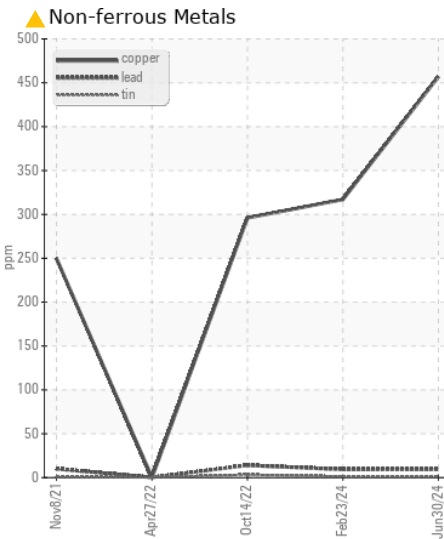
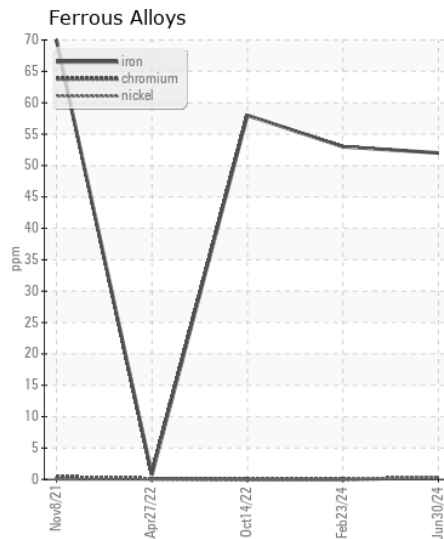
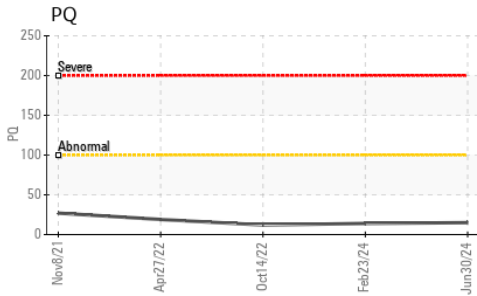
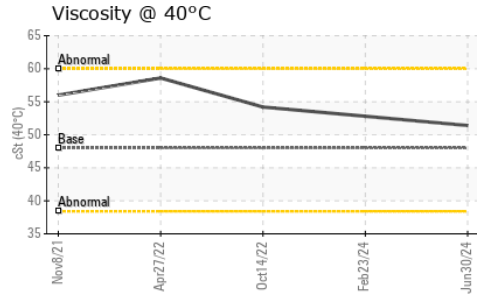
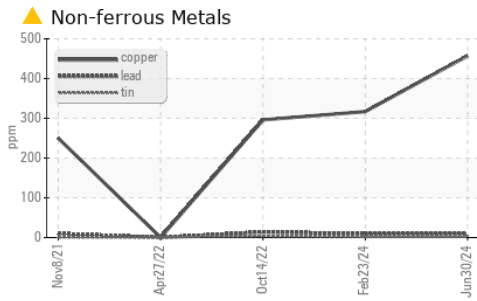
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75   | <b>6</b>     | 8     | 4     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>3</b>     | 1     | 3     |
| Water            |        | WC Method   | >.2   | <b>NEG</b>   | NEG   | NEG   |
| 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     | >.2   | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |             |      |              |      |      |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |      | <b>1</b>     | 3    | 0    |
| Boron       | ppm | ASTM D5185m | 10   | <b>3</b>     | 1    | 3    |
| Barium      | ppm | ASTM D5185m | 10   | <b>&lt;1</b> | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 10   | <b>4</b>     | <1   | <1   |
| Manganese   | ppm | ASTM D5185m |      | <b>&lt;1</b> | 1    | 2    |
| Magnesium   | ppm | ASTM D5185m | 100  | <b>95</b>    | 96   | 85   |
| Calcium     | ppm | ASTM D5185m | 3500 | <b>3356</b>  | 3333 | 3379 |
| Phosphorus  | ppm | ASTM D5185m | 1150 | <b>1079</b>  | 996  | 1067 |
| Zinc        | ppm | ASTM D5185m | 1150 | <b>1221</b>  | 1228 | 1233 |
| Sulfur      | ppm | ASTM D5185m | 5000 | <b>3568</b>  | 3679 | 4566 |
| Visc @ 40°C | cSt | ASTM D445   | 48   | <b>51.4</b>  | 52.8 | 54.2 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0223400 **Received** : 01 Jul 2024  
**Lab Number** : 06224787 **Tested** : 02 Jul 2024  
**Unique Number** : 11102984 **Diagnosed** : 02 Jul 2024 - Don Baldrige  
**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)

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