



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

Machine Id  
**JOHN DEERE 2156G 1FF2156GJJF216063**  
 Component  
**Swing Drive Gear Case**  
 Fluid  
**JOHN DEERE GL-5 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>JR0209234</b>   | JR0175232   | JR0146187   |
| Sample Date    |     | Client Info |           | <b>12 Apr 2024</b> | 11 Jul 2023 | 26 Oct 2022 |
| Machine Age    | hrs | Client Info |           | <b>5430</b>        | 4902        | 4368        |
| Oil Age        | hrs | Client Info |           | <b>5430</b>        | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Changed     | Not Changd  |
| Filter Changed |     | Client Info |           | <b>None</b>        | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| PQ           |        | ASTM D8184  |      | <b>32</b>    | 15   | 19   |
| Iron         | ppm    | ASTM D5185m | >200 | <b>54</b>    | 2    | 35   |
| Chromium     | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Lead         | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Tin          | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

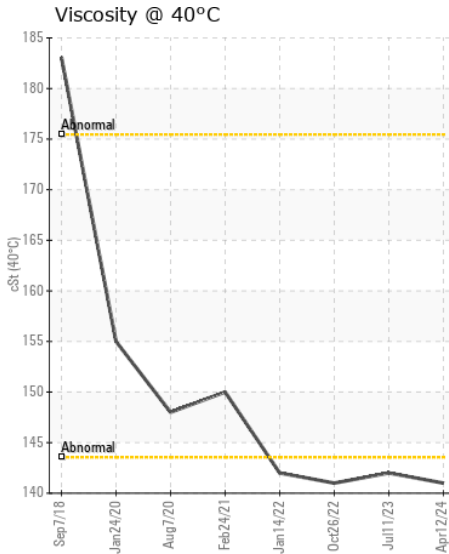
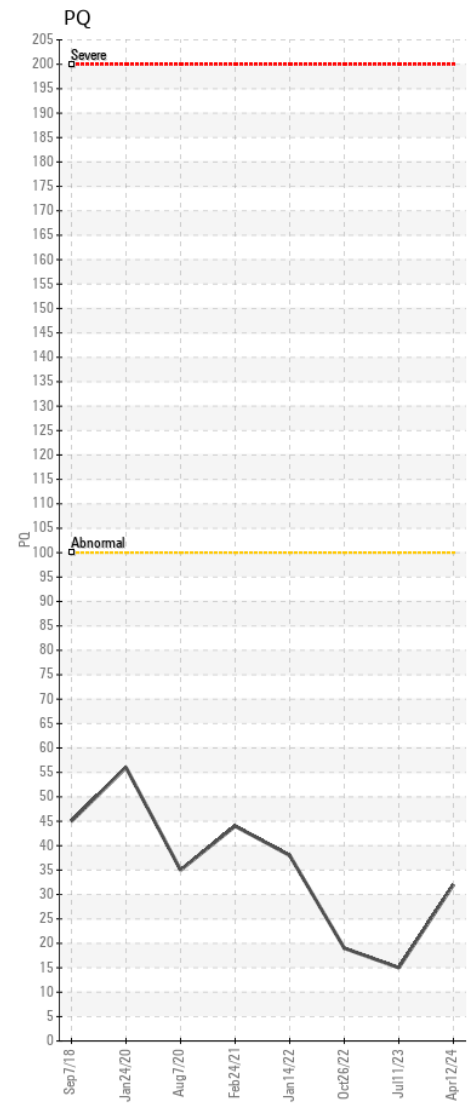
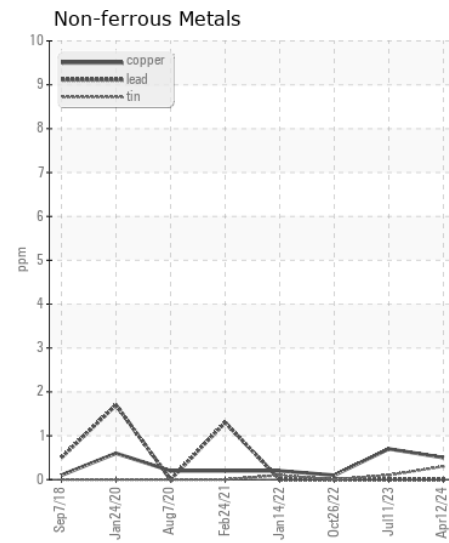
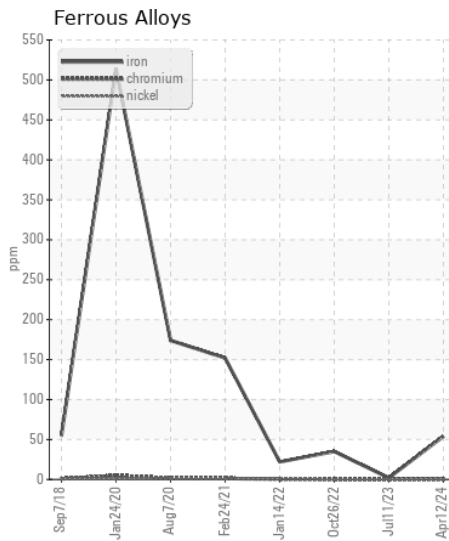
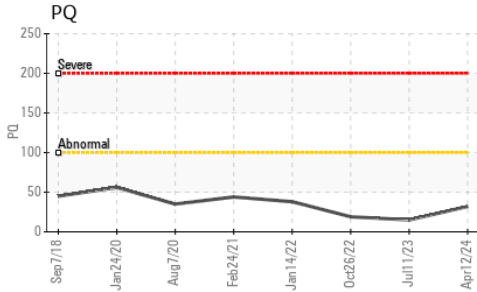
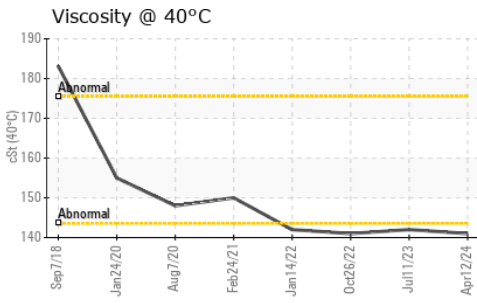
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m |       | <b>6</b>     | 2     | 4     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | 1     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | VLITE |
| 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     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |             |  |              |       |       |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium      | ppm | ASTM D5185m |  | <b>3</b>     | 0     | 0     |
| Boron       | ppm | ASTM D5185m |  | <b>1</b>     | 3     | 2     |
| Barium      | ppm | ASTM D5185m |  | <b>0</b>     | 0     | 0     |
| Molybdenum  | ppm | ASTM D5185m |  | <b>0</b>     | 0     | <1    |
| Manganese   | ppm | ASTM D5185m |  | <b>1</b>     | <1    | <1    |
| Magnesium   | ppm | ASTM D5185m |  | <b>3</b>     | 3     | 2     |
| Calcium     | ppm | ASTM D5185m |  | <b>12</b>    | 4     | 9     |
| Phosphorus  | ppm | ASTM D5185m |  | <b>1930</b>  | 366   | 2006  |
| Zinc        | ppm | ASTM D5185m |  | <b>24</b>    | 0     | 32    |
| Sulfur      | ppm | ASTM D5185m |  | <b>30508</b> | 23479 | 33578 |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>141</b>   | 142   | 141   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0209234  
**Lab Number** : 06152229  
**Unique Number** : 10982307  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - GARNER**  
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 US 27529  
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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)