



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



Machine Id  
**JOHN DEERE 130G 1FF130GXAJF042099**  
Component  
**Swing Drive Gear Case**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>JR0222436</b>   | JR0113199   | ---      |
| Sample Date    |     | Client Info |           | <b>03 Jul 2024</b> | 15 Dec 2021 | ---      |
| Machine Age    | hrs | Client Info |           | <b>2171</b>        | 1386        | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Not Changd  | ---      |
| Filter Changed |     | Client Info |           | <b>None</b>        | N/A         | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |

### WEAR

All component wear rates are normal.

| PQ           | UOM    | Method      | Limit/Abn | Current     | History1 | History2 |
|--------------|--------|-------------|-----------|-------------|----------|----------|
| PQ           |        | ASTM D8184  |           | <b>12</b>   | 25       | ---      |
| Iron         | ppm    | ASTM D5185m | >200      | <b>3</b>    | 77       | ---      |
| Chromium     | ppm    | ASTM D5185m | >10       | <b>0</b>    | 1        | ---      |
| Nickel       | ppm    | ASTM D5185m | >10       | <b>0</b>    | 0        | ---      |
| Titanium     | ppm    | ASTM D5185m |           | <b>0</b>    | 0        | ---      |
| Silver       | ppm    | ASTM D5185m |           | <b>0</b>    | 0        | ---      |
| Aluminum     | ppm    | ASTM D5185m |           | <b>0</b>    | 1        | ---      |
| Lead         | ppm    | ASTM D5185m |           | <b>0</b>    | 0        | ---      |
| Copper       | ppm    | ASTM D5185m |           | <b>0</b>    | <1       | ---      |
| Tin          | ppm    | ASTM D5185m |           | <b>0</b>    | <1       | ---      |
| Vanadium     | ppm    | ASTM D5185m |           | <b>0</b>    | 0        | ---      |
| White Metal  | scalar | *Visual     | NONE      | <b>NONE</b> | LIGHT    | ---      |
| Yellow Metal | scalar | *Visual     | NONE      | <b>NONE</b> | NONE     | ---      |

### CONTAMINATION

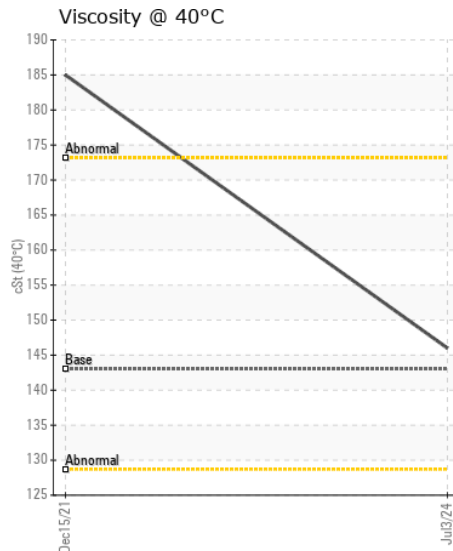
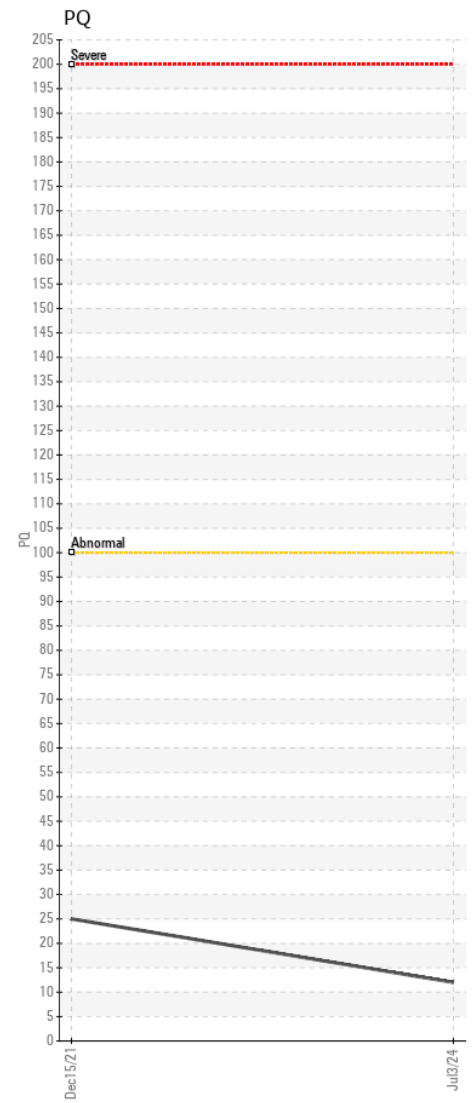
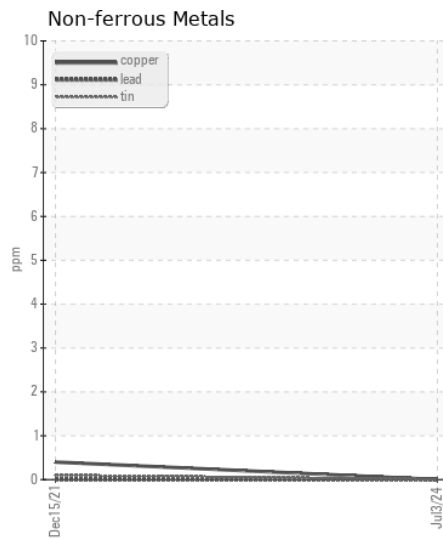
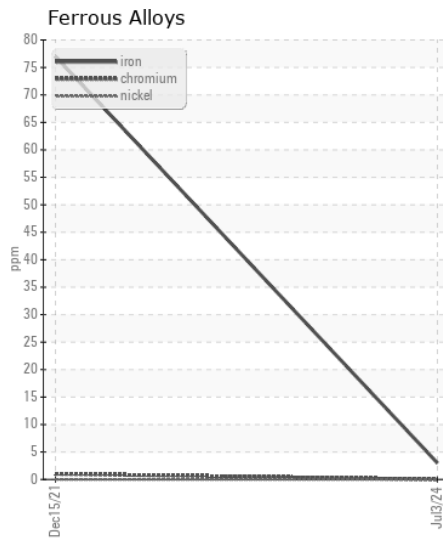
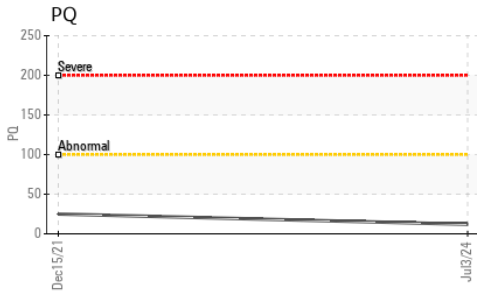
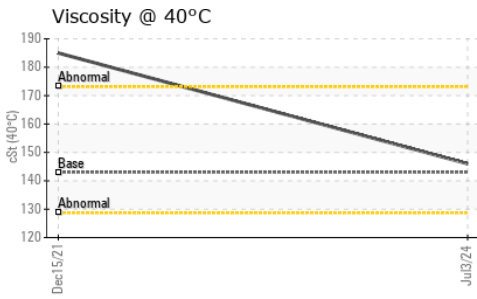
There is no indication of any contamination in the component.

| Test             | UOM    | Method      | Limit/Abn | Current      | History1 | History2 |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Silicon          | ppm    | ASTM D5185m |           | <b>&lt;1</b> | ▲ 41     | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>0</b>     | 1        | ---      |
| Water            |        | WC Method   | >0.2      | <b>NEG</b>   | NEG      | ---      |
| Silt             | scalar | *Visual     | NONE      | <b>NONE</b>  | NONE     | ---      |
| Debris           | scalar | *Visual     | NONE      | <b>NONE</b>  | LIGHT    | ---      |
| 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     | >0.2      | <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 | >170      | <b>2</b>     | <1       | ---      |
| Boron       | ppm | ASTM D5185m | 400       | <b>2</b>     | 25       | ---      |
| Barium      | ppm | ASTM D5185m | 200       | <b>0</b>     | 5        | ---      |
| Molybdenum  | ppm | ASTM D5185m | 12        | <b>0</b>     | 0        | ---      |
| Manganese   | ppm | ASTM D5185m |           | <b>0</b>     | 3        | ---      |
| Magnesium   | ppm | ASTM D5185m | 12        | <b>2</b>     | <1       | ---      |
| Calcium     | ppm | ASTM D5185m | 150       | <b>3</b>     | 9        | ---      |
| Phosphorus  | ppm | ASTM D5185m | 1650      | <b>2295</b>  | 486      | ---      |
| Zinc        | ppm | ASTM D5185m | 125       | <b>0</b>     | 23       | ---      |
| Sulfur      | ppm | ASTM D5185m | 22500     | <b>29756</b> | 13605    | ---      |
| Visc @ 40°C | cSt | ASTM D445   | 143       | <b>146</b>   | 185      | ---      |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : JR0222436

**Lab Number** : 06232430

**Unique Number** : 11115923

**Test Package** : CONST ( Additional Tests: PQ )

**Received** : 10 Jul 2024

**Tested** : 11 Jul 2024

**Diagnosed** : 11 Jul 2024 - Sean Felton

**JRE - GARNER**

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

sean.betts@jamesriverequipment.com; catherine.anastasio@wearcheck.com

T: (919)614-2260

F: (919)779-5432

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)