



Machine Id
JOHN DEERE 350G 1FF350GXTHF812256

Component
Right Final Drive

Fluid
JOHN DEERE GL-5 80W90 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated.

CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

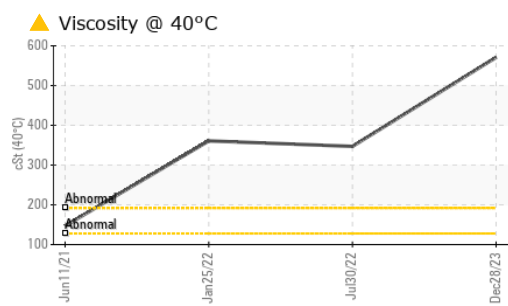
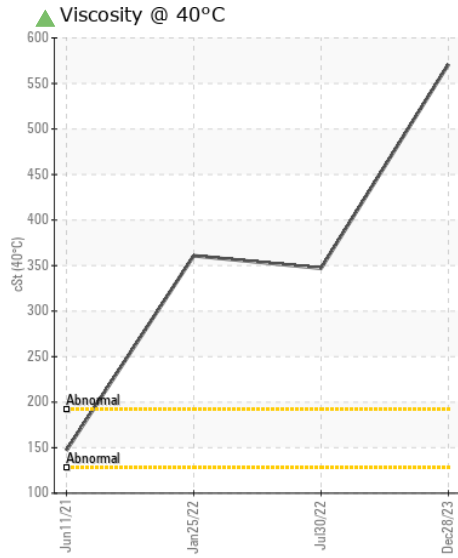
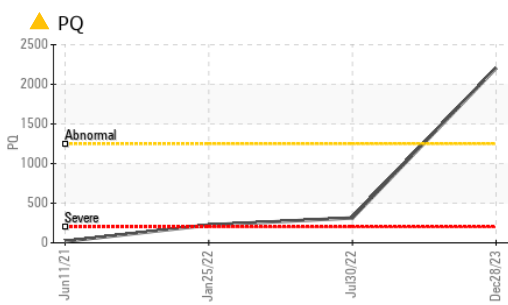
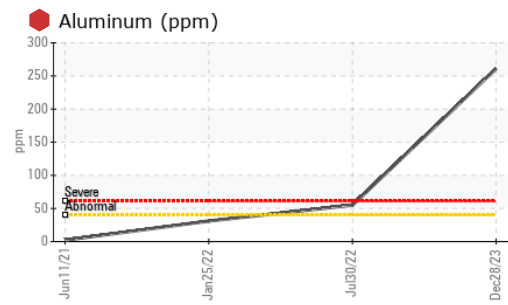
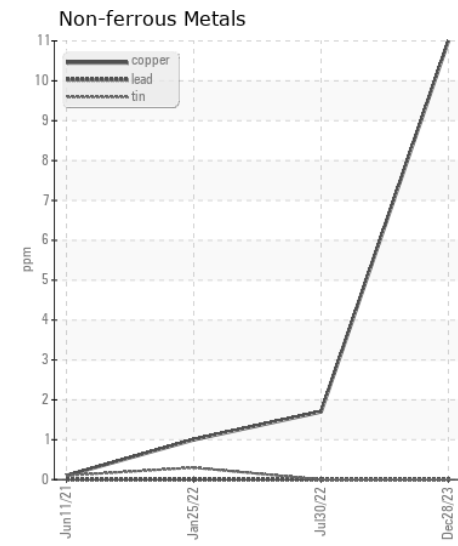
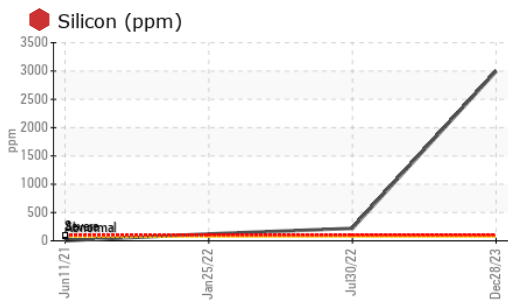
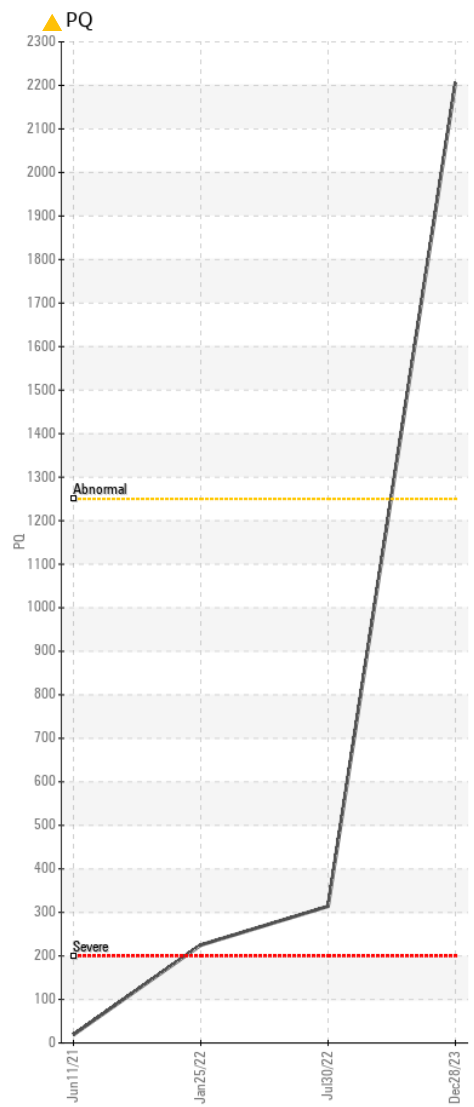
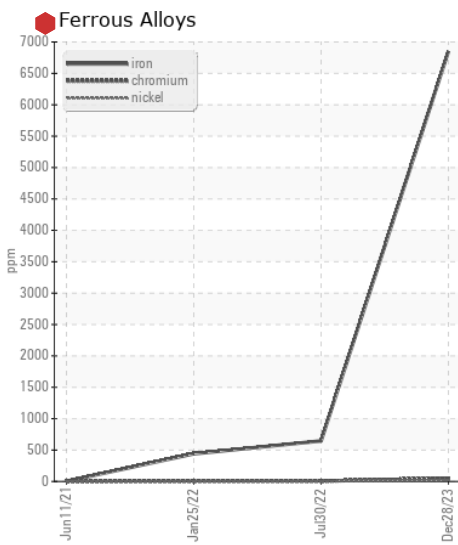
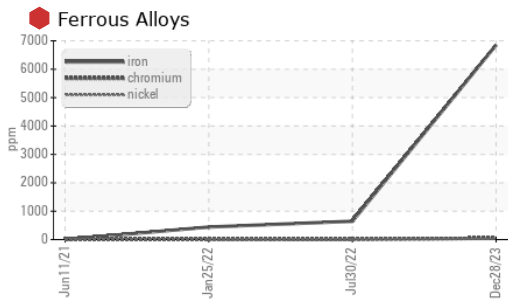
The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0196268 | JR0136538 | JR0105317 |
| Sample Date | | Client Info | | 28 Dec 2023 | 30 Jul 2022 | 25 Jan 2022 |
| Machine Age | hrs | Client Info | | 4539 | 2944 | 2518 |
| Oil Age | hrs | Client Info | | 0 | 2944 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | Not Changd | N/A |
| Filter Changed | | Client Info | | N/A | N/A | Changed |
| Sample Status | | | | SEVERE | ABNORMAL | ABNORMAL |

| | | | | | | |
|--------------|--------|-------------|-------|---------------|-------------|-------------|
| PQ | | ASTM D8184 | >1250 | ▲ 2206 | 314 | 225 |
| Iron | ppm | ASTM D5185m | >750 | ● 6850 | 646 | 441 |
| Chromium | ppm | ASTM D5185m | >9 | ● 50 | 6 | 4 |
| Nickel | ppm | ASTM D5185m | >10 | ● 21 | 1 | 1 |
| Titanium | ppm | ASTM D5185m | | 33 | 4 | 3 |
| Silver | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | >40 | ● 261 | ▲ 55 | ▲ 31 |
| Lead | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >40 | 11 | 2 | 1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| White Metal | scalar | *Visual | NONE | MODER | NONE | LIGHT |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

| | | | | | | |
|------------------|--------|-------------|--------|---------------|--------------|--------------|
| Silicon | ppm | ASTM D5185m | >75 | ● 2995 | ▲ 220 | ▲ 122 |
| Potassium | ppm | ASTM D5185m | >20 | 58 | 12 | 8 |
| Water | | WC Method | >0.075 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.075 | NEG | NEG | NEG |

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|----------------|
| Sodium | ppm | ASTM D5185m | >51 | 31 | 8 | 6 |
| Boron | ppm | ASTM D5185m | | 62 | 50 | 88 |
| Barium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 3 | <1 | 4 |
| Manganese | ppm | ASTM D5185m | | 55 | 7 | 4 |
| Magnesium | ppm | ASTM D5185m | | 20 | 8 | 16 |
| Calcium | ppm | ASTM D5185m | | 50 | 32 | 46 |
| Phosphorus | ppm | ASTM D5185m | | 2290 | 2297 | 2137 |
| Zinc | ppm | ASTM D5185m | | 1 | 8 | 24 |
| Sulfur | ppm | ASTM D5185m | | 32132 | 34660 | 25056 |
| Visc @ 40°C | cSt | ASTM D445 | | ▲ 571 | 347 | ▲ 360.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0196268 **Received** : 08 Jan 2024
Lab Number : 06054243 **Diagnosed** : 09 Jan 2024
Unique Number : 10820192 **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 - CASTLE HAYNE
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Contact: WILMINGTON SHOP

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