



WEAR  
CONTAMINATION  
FLUID CONDITION

ATTENTION

ABNORMAL

NORMAL



Machine Id  
**JOHN DEERE 300G 1FF300GXVJF730720**  
Component  
**Right Final Drive**  
Fluid  
**JOHN DEERE GL-5 80W90 (9 QTS)**

### RECOMMENDATION

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | JR0215977   | JR0198276   | JR0177324   |
| Sample Date    |     | Client Info |           | 24 May 2024 | 26 Jan 2024 | 15 Aug 2023 |
| Machine Age    | hrs | Client Info |           | 0           | 4719        | 4380        |
| Oil Age        | hrs | Client Info |           | 0           | 4396        | 4380        |
| Filter Age     | hrs | Client Info |           | 0           | 0           | 0           |
| Oil Changed    |     | Client Info |           | Changed     | Not Changd  | N/A         |
| Filter Changed |     | Client Info |           | N/A         | N/A         | N/A         |
| Sample Status  |     |             |           | ABNORMAL    | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |       |      |      |      |
|--------------|--------|-------------|-------|------|------|------|
| PQ           |        | ASTM D8184  | >1250 | 352  | 12   | 84   |
| Iron         | ppm    | ASTM D5185m | >750  | 637  | 34   | 226  |
| Chromium     | ppm    | ASTM D5185m | >9    | 3    | <1   | 1    |
| Nickel       | ppm    | ASTM D5185m | >10   | <1   | 0    | <1   |
| Titanium     | ppm    | ASTM D5185m |       | 3    | 0    | 2    |
| Silver       | ppm    | ASTM D5185m |       | 0    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >40   | 39   | 2    | 17   |
| Lead         | ppm    | ASTM D5185m | >15   | 0    | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >40   | <1   | 0    | <1   |
| Tin          | ppm    | ASTM D5185m | >10   | 0    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |       | 0    | 0    | <1   |
| White Metal  | scalar | *Visual     | NONE  | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE  | NONE | NONE | NONE |

### CONTAMINATION

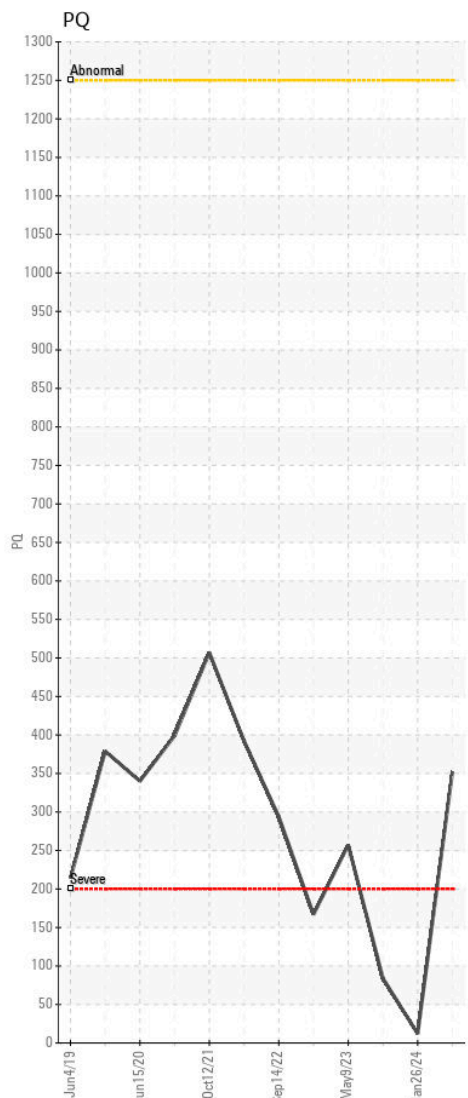
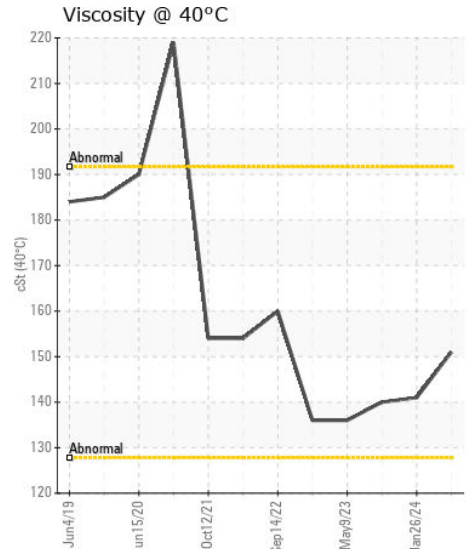
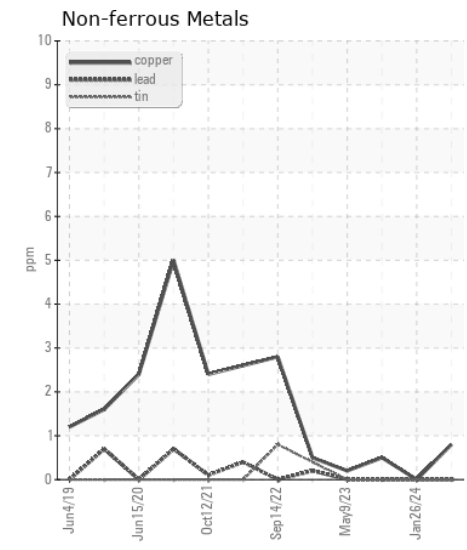
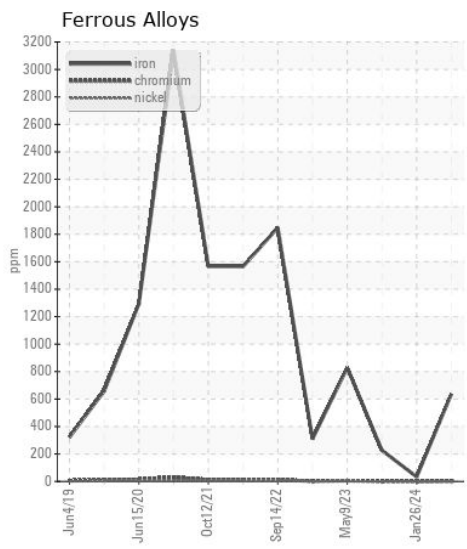
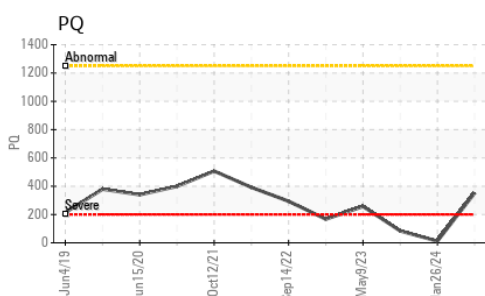
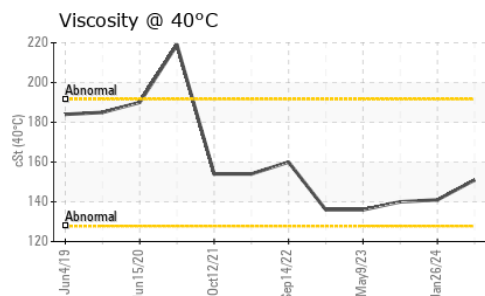
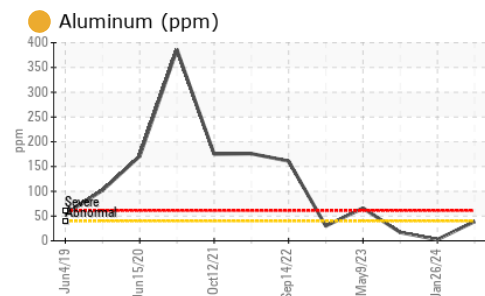
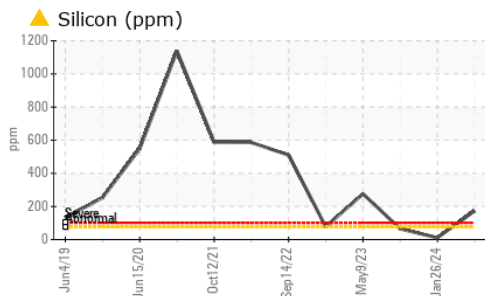
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

|                  |        |             |        |       |       |       |
|------------------|--------|-------------|--------|-------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >75    | 173   | 11    | 65    |
| Potassium        | ppm    | ASTM D5185m | >20    | 9     | 2     | 4     |
| Water            |        | WC Method   | >0.075 | NEG   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE   | MODER | 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   |

### FLUID CONDITION

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

|             |     |             |     |       |       |       |
|-------------|-----|-------------|-----|-------|-------|-------|
| Sodium      | ppm | ASTM D5185m | >51 | 4     | 0     | 2     |
| Boron       | ppm | ASTM D5185m |     | 12    | 1     | 13    |
| Barium      | ppm | ASTM D5185m |     | 0     | <1    | 0     |
| Molybdenum  | ppm | ASTM D5185m |     | <1    | 0     | <1    |
| Manganese   | ppm | ASTM D5185m |     | 4     | 0     | 2     |
| Magnesium   | ppm | ASTM D5185m |     | 10    | 4     | 6     |
| Calcium     | ppm | ASTM D5185m |     | 16    | 10    | 61    |
| Phosphorus  | ppm | ASTM D5185m |     | 396   | 321   | 400   |
| Zinc        | ppm | ASTM D5185m |     | 7     | 0     | 12    |
| Sulfur      | ppm | ASTM D5185m |     | 21425 | 19726 | 22625 |
| Visc @ 40°C | cSt | ASTM D445   |     | 151   | 141   | 140   |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JR0215977 **Received** : 29 May 2024  
**Lab Number** : 06194258 **Tested** : 30 May 2024  
**Unique Number** : 11056381 **Diagnosed** : 31 May 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: PQ )

**JRE - CHARLOTTE**  
 9550 STATESVILLE ROAD  
 CHARLOTTE, NC  
 US 28269  
 Contact: CHARLOTTE SHOP  
 myoung@jamesriverequipment.com  
 T: (704)597-0211  
 F: (704)596-6198

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)