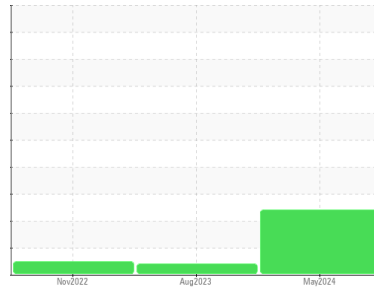


OIL ANALYSIS REPORT

Sample Rating Trend


DIRT


Machine Id

JOHN DEERE 50G 1FF050GXCLH293048

Component

Left Final Drive

Fluid

JOHN DEERE GL-5 80W90 (1 GAL)

DIAGNOSIS

▲ 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.

● Wear

All component wear rates are normal.

▲ Contamination

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

Fluid Condition

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

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number | Client Info | | | JR0212160 | JR0182118 | JR0153429 |
| Sample Date | Client Info | | | 16 May 2024 | 10 Aug 2023 | 28 Nov 2022 |
| Machine Age | hrs | Client Info | | 1716 | 1432 | 985 |
| Oil Age | hrs | Client Info | | 1000 | 447 | 985 |
| Oil Changed | Client Info | | | Changed | Not Changd | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water | WC Method | | >0.075 | NEG | NEG | NEG |

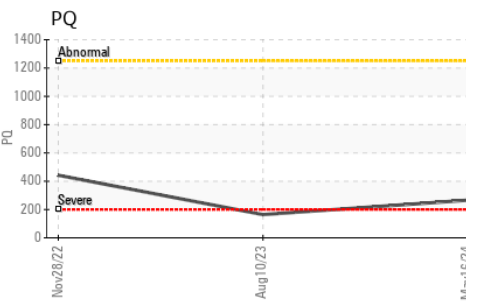
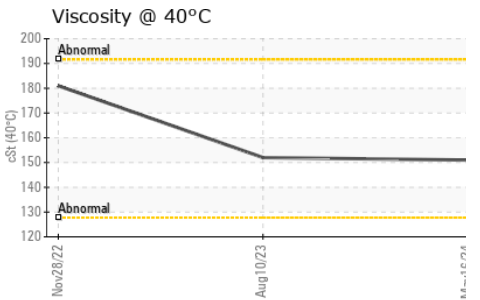
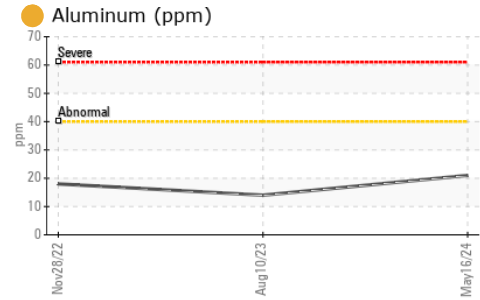
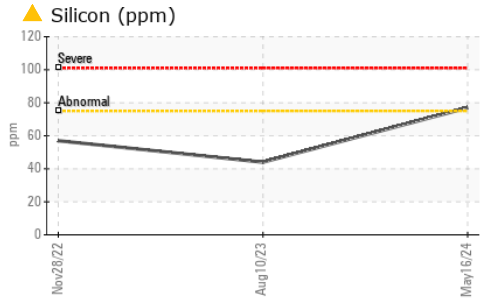
| WEAR METALS | | method | limit/base | current | history1 | history2 |
|-------------|-----|-------------|------------|------------|----------|----------|
| PQ | | ASTM D8184 | >1250 | 266 | 164 | 442 |
| Iron | ppm | ASTM D5185m | >750 | 440 | 266 | 426 |
| Chromium | ppm | ASTM D5185m | >9 | 11 | 7 | 12 |
| Nickel | ppm | ASTM D5185m | >10 | 6 | 5 | 4 |
| Titanium | ppm | ASTM D5185m | | 2 | 1 | 2 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >40 | 21 | 14 | 18 |
| Lead | ppm | ASTM D5185m | >15 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >40 | 1 | 1 | 5 |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|------------|-----|-------------|------------|--------------|----------|----------|
| Boron | ppm | ASTM D5185m | | 132 | 103 | 42 |
| Barium | ppm | ASTM D5185m | | 2 | <1 | 3 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | | 8 | 6 | 9 |
| Magnesium | ppm | ASTM D5185m | | 4 | 3 | 6 |
| Calcium | ppm | ASTM D5185m | | 41 | 25 | 87 |
| Phosphorus | ppm | ASTM D5185m | | 875 | 868 | 529 |
| Zinc | ppm | ASTM D5185m | | 150 | 109 | 204 |
| Sulfur | ppm | ASTM D5185m | | 20271 | 21329 | 17256 |

| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|--------------|-----|-------------|------------|-------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >75 | ▲ 77 | 44 | 57 |
| Sodium | ppm | ASTM D5185m | >51 | 3 | 4 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 37 | 29 | 45 |

| VISUAL | | method | limit/base | current | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------------|----------|
| White Metal | scalar | *Visual | NONE | NONE | MODER | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silt | scalar | *Visual | NONE | LIGHT | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | ▲ MODER | 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 |
| Free Water | scalar | *Visual | | NEG | NEG | NEG |

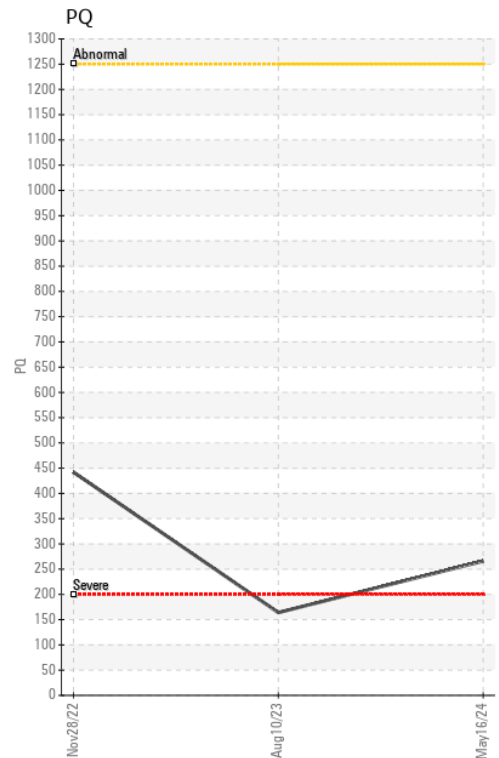
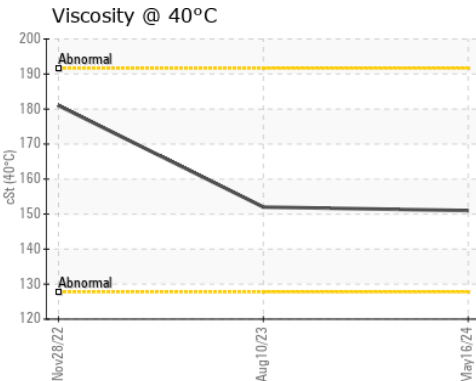
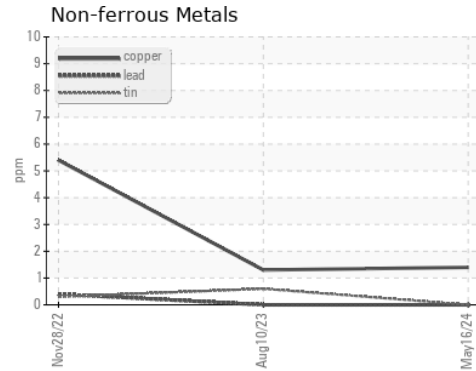
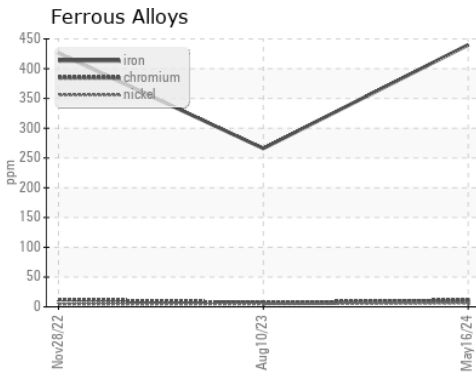
OIL ANALYSIS REPORT



| FLUID PROPERTIES | method | limit/base | current | history1 | history2 |
|------------------|--------|------------|---------|----------|----------|
| Visc @ 40°C | cSt | ASTM D445 | 151 | 152 | 181 |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---------------|--------|------------|---------|----------|----------|
| Color | | | | no image | no image |
| Bottom | | | | no image | no image |

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0212160 **Received** : 20 May 2024
Lab Number : 06184578 **Tested** : 21 May 2024
Unique Number : 11035904 **Diagnosed** : 22 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

JRE - ASHLAND
 11047 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: DAVID ZIEG
 dzieg@jamesriverequipment.com
 T: (804)798-6001
 F: (804)798-0292

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)