



| | |
|-----------------|---------------|
| WEAR | NORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Area

[05W46859]

Machine Id

SENNEBOGEN 821M 821.0.2814

Component

Front Differential

Fluid

JOHN DEERE GL-5 80W90 (4 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | JR0214345 | JR0208464 | JR0199345 |
| Sample Date | | Client Info | | 17 May 2024 | 12 Mar 2024 | 05 Jan 2024 |
| Machine Age | hrs | Client Info | | 4551 | 4023 | 3489 |
| Oil Age | hrs | Client Info | | 528 | 1000 | 1467 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| PQ | UOM | Method | Limit/Abn | Current | History1 | History2 |
|--------------|--------|-------------|-----------|--------------|----------|----------|
| PQ | | ASTM D8184 | | 21 | 21 | 23 |
| Iron | ppm | ASTM D5185m | >500 | 4 | 7 | 5 |
| Chromium | ppm | ASTM D5185m | >10 | <1 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 1 | 2 | 0 |
| Lead | ppm | ASTM D5185m | >25 | <1 | 3 | 0 |
| Copper | ppm | ASTM D5185m | >100 | <1 | 1 | 0 |
| Tin | ppm | ASTM D5185m | >10 | 1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

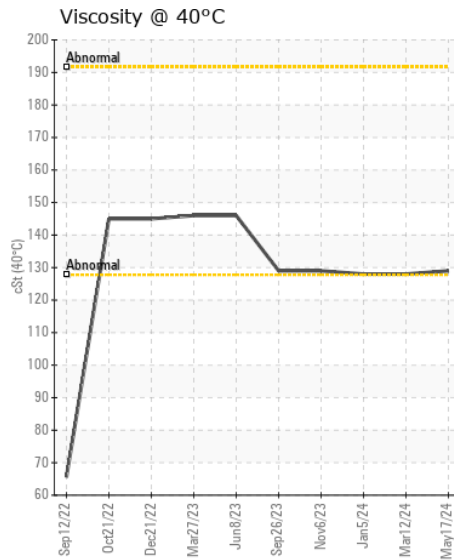
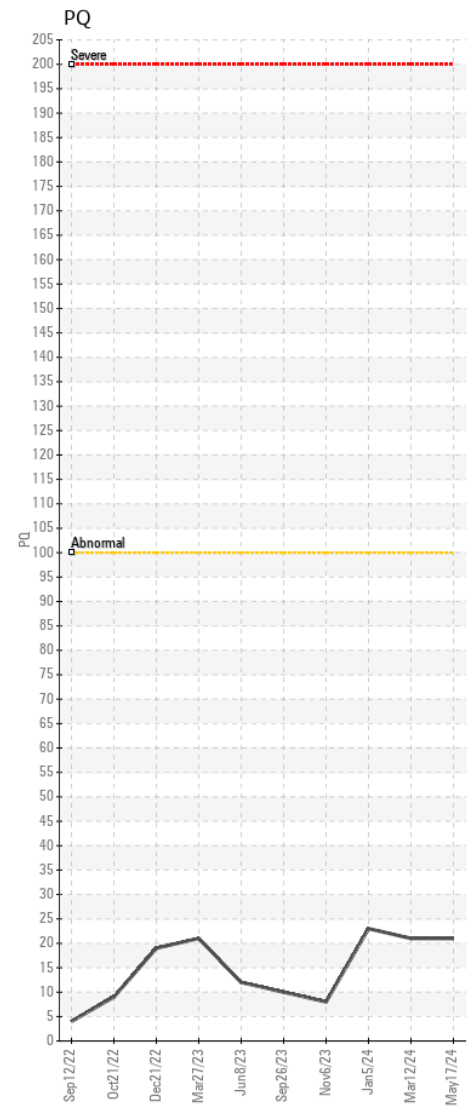
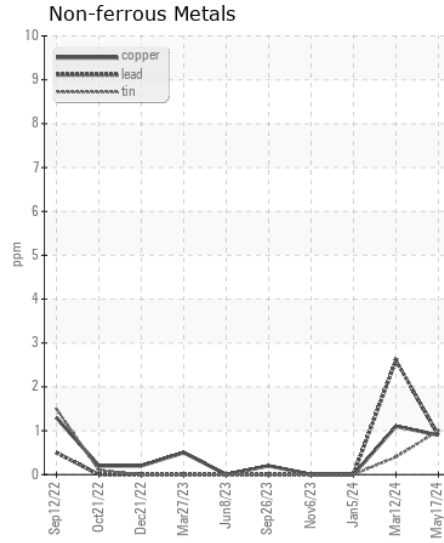
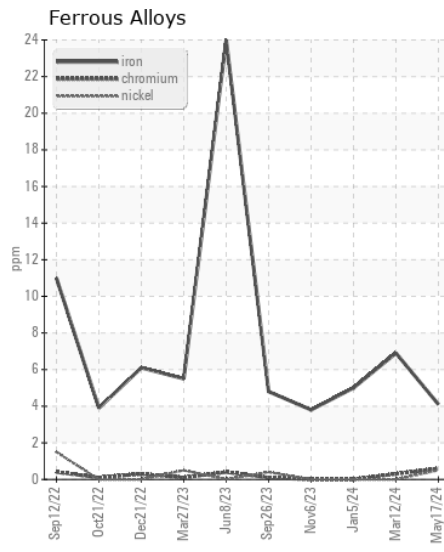
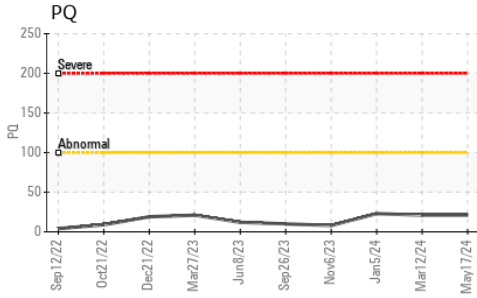
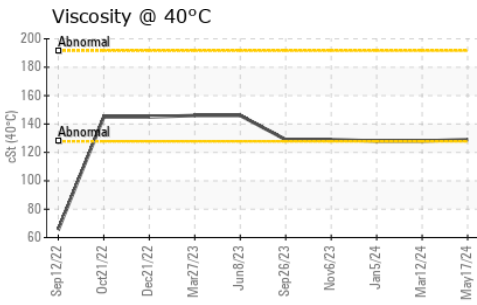
There is no indication of any contamination in the oil.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|-------------|-----------|--------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >75 | 2 | <1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | <1 |
| Water | | WC Method | >.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| 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 | >.2 | NEG | NEG | 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 | | <1 | 0 | 1 |
| Boron | ppm | ASTM D5185m | | 7 | <1 | <1 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | <1 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 4 | 3 | 2 |
| Calcium | ppm | ASTM D5185m | | 25 | 38 | 20 |
| Phosphorus | ppm | ASTM D5185m | | 1750 | 1642 | 1751 |
| Zinc | ppm | ASTM D5185m | | 41 | 124 | 103 |
| Sulfur | ppm | ASTM D5185m | | 21910 | 22238 | 20526 |
| Visc @ 40°C | cSt | ASTM D445 | | 129 | 128 | 128 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0214345 **Received** : 21 May 2024
Lab Number : 06186934 **Tested** : 23 May 2024
Unique Number : 11043686 **Diagnosed** : 23 May 2024 - Don Baldrige
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 - MANASSAS PARK
 9107 OWENS DRIVE
 MANASSAS PARK, VA
 US 20111

Contact: DON VEST
dvest@jamesriverequipment.com

T: (703)631-8500

F: (703)631-4715