



OIL ANALYSIS REPORT

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

Area
[24156664]
 Machine Id
B21613 - 3 (S/N 69700018)
 Component
Gearbox
 Fluid
JAX MAGNA-PLATE 85W140-FG (--- GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0921316 | WC0885469 | WC0866693 |
| Sample Date | | Client Info | | 21 May 2024 | 07 Feb 2024 | 05 Nov 2023 |
| Machine Age | yrs | Client Info | | 0 | 0 | 0 |
| Oil Age | yrs | Client Info | | 1 | 0 | 0 |
| Filter Age | yrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | Not Changd |
| Filter Changed | | Client Info | | Not Changd | N/A | Not Changd |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |

WEAR

Bearing and/or gear wear is indicated.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|-------|
| Iron | ppm | ASTM D5185m | >200 | 2 | <1 | 0 |
| Chromium | ppm | ASTM D5185m | >15 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >15 | 8 | 6 | 4 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >100 | 4 | 2 | 2 |
| Copper | ppm | ASTM D5185m | >200 | ▲ 320 | ▲ 278 | ▲ 197 |
| Tin | ppm | ASTM D5185m | >25 | ▲ 43 | ▲ 34 | ▲ 23 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

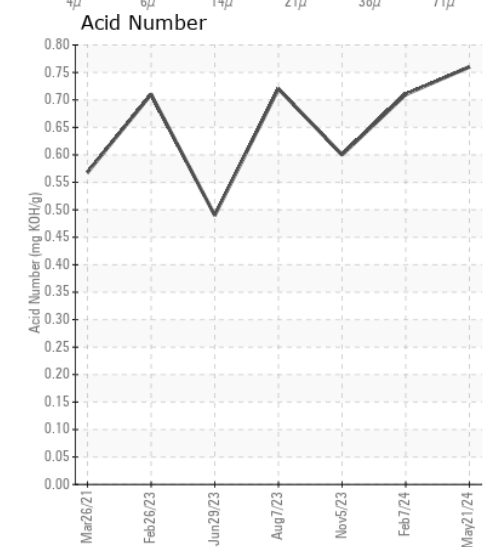
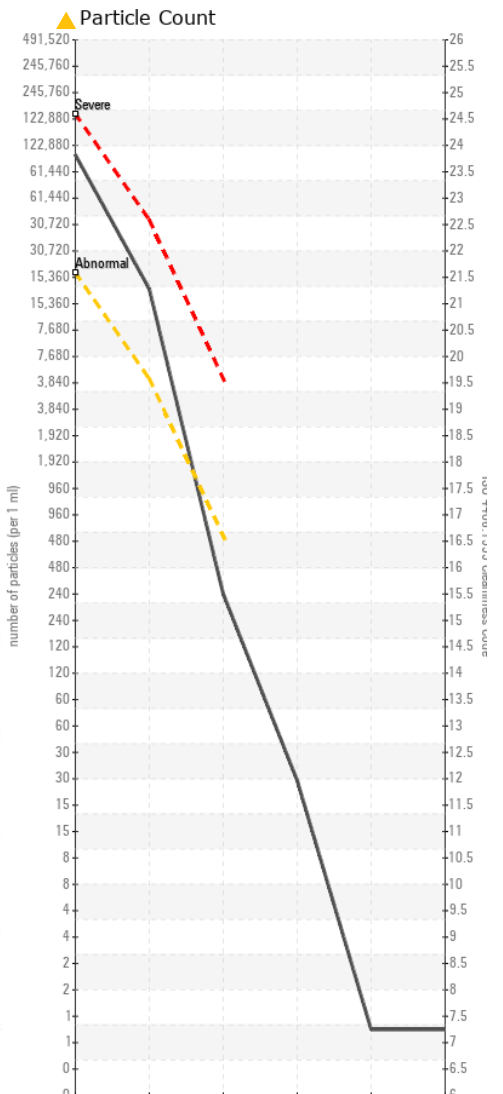
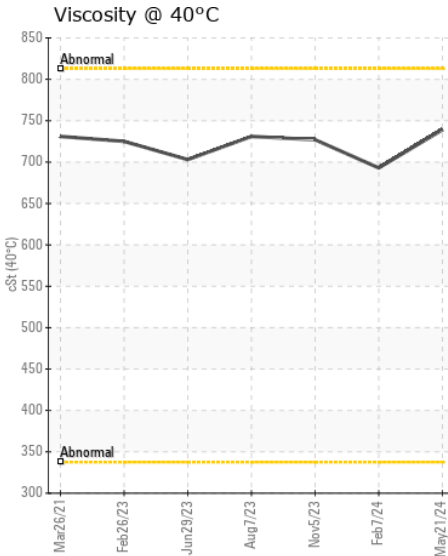
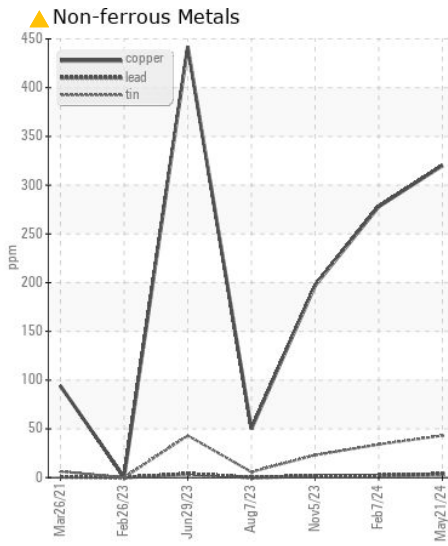
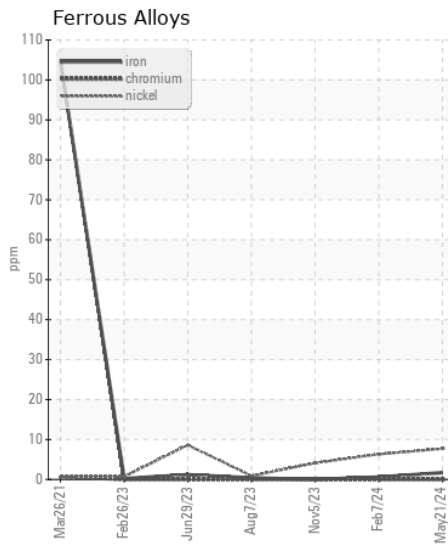
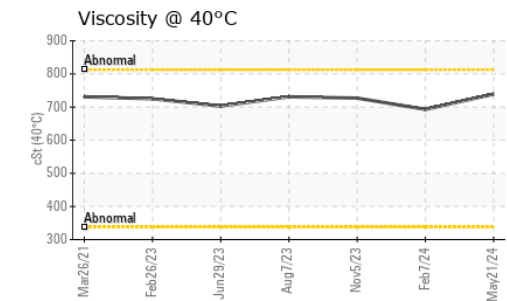
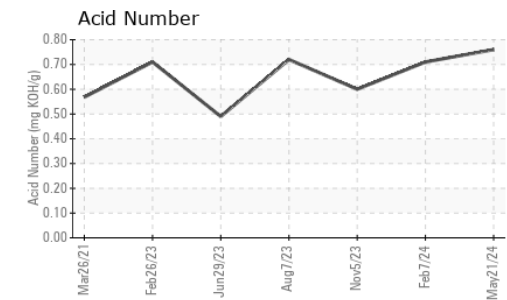
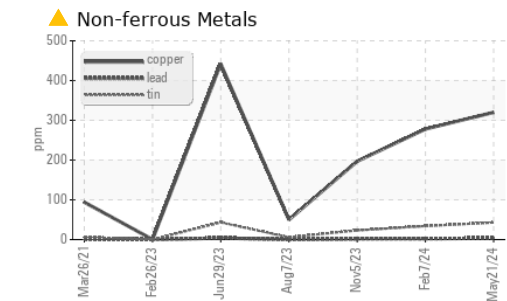
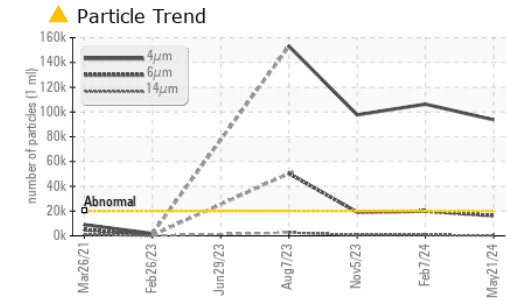
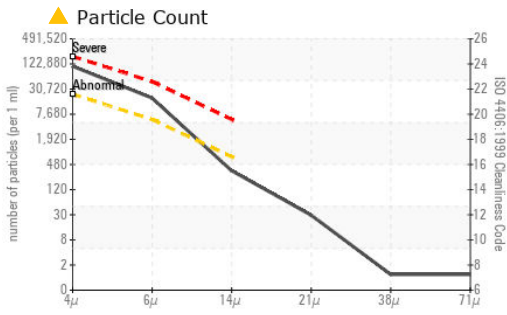
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|-------------------|------------|------------|
| Silicon | ppm | ASTM D5185m | >50 | 2 | 1 | 1 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 0 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >20000 | ▲ 93705 | ▲ 106310 | ▲ 97674 |
| Particles >6µm | | ASTM D7647 | >5000 | ▲ 16198 | ▲ 19828 | ▲ 19123 |
| Particles >14µm | | ASTM D7647 | >640 | 299 | 578 | 576 |
| Particles >21µm | | ASTM D7647 | >160 | 26 | 70 | 83 |
| Particles >38µm | | ASTM D7647 | >40 | 1 | 1 | 1 |
| Particles >71µm | | ASTM D7647 | >10 | 1 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | ▲ 24/21/15 | ▲ 24/21/16 | ▲ 24/21/16 |
| 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 | >0.2 | NEG | 0.2% | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|--|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Calcium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Phosphorus | ppm | ASTM D5185m | | 450 | 423 | 388 |
| Zinc | ppm | ASTM D5185m | | 1 | 0 | 0 |
| Sulfur | ppm | ASTM D5185m | | 6410 | 5314 | 4710 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.76 | 0.71 | 0.60 |
| Visc @ 40°C | cSt | ASTM D445 | | 739 | 693 | 727 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0921316 **Received** : 29 May 2024
Lab Number : 06193951 **Tested** : 30 May 2024
Unique Number : 11056074 **Diagnosed** : 31 May 2024 - Angela Borella
Test Package : IND 2 (Additional Tests: PrtCount)

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)

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