



LIEBHERR

OIL ANALYSIS REPORT

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



Machine Id
LIEBHERR LH50M 144842-1216
Component
Rear Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LH0270191 | LH0274758 | LH0256572 |
| Sample Date | | Client Info | | 27 Feb 2024 | 23 Aug 2023 | 09 Mar 2023 |
| Machine Age | hrs | Client Info | | 2406 | 1252 | 561 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185(m) | >190 | 14 | 27 | 43 |
| Chromium | ppm | ASTM D5185(m) | >2 | 0 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >15 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >70 | 5 | 12 | 15 |
| Tin | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | LIGHT |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

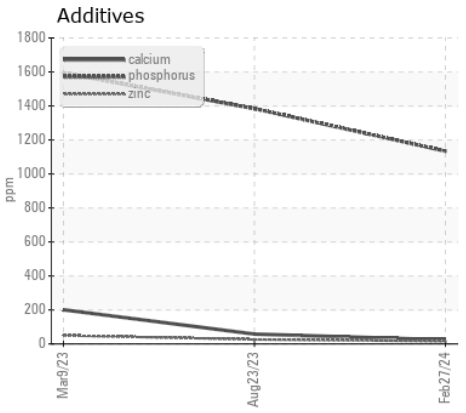
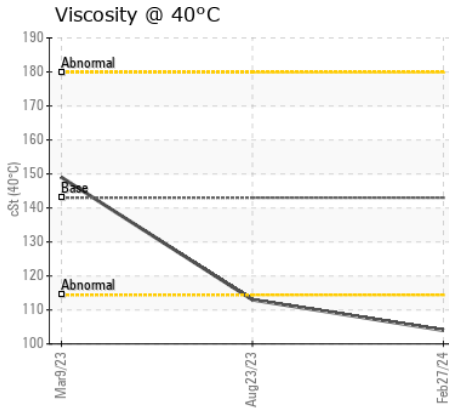
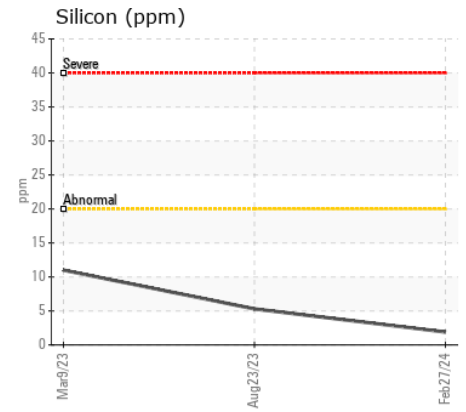
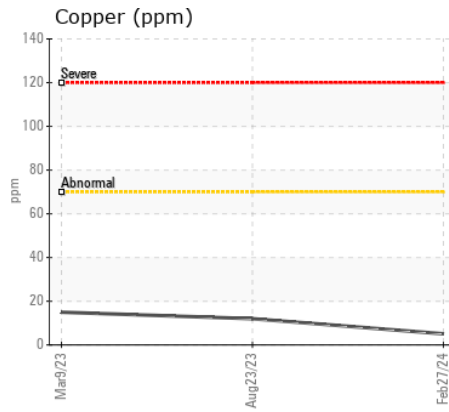
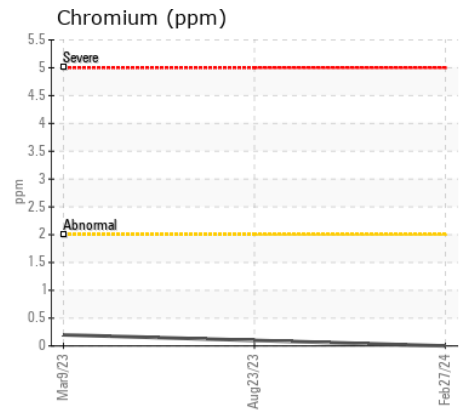
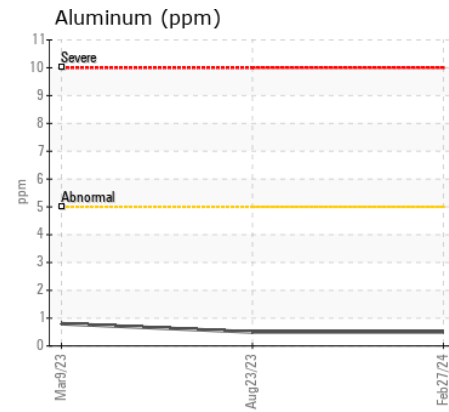
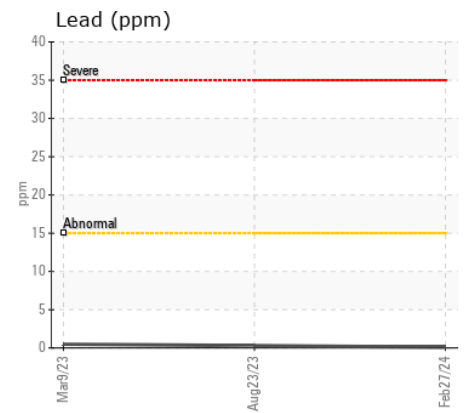
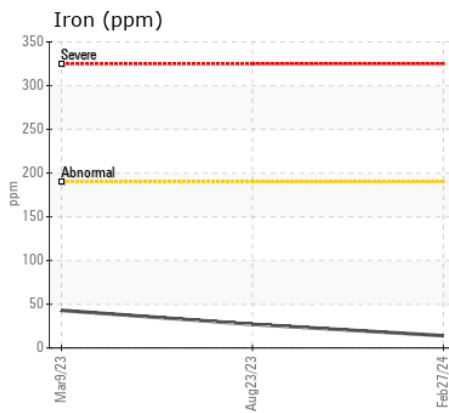
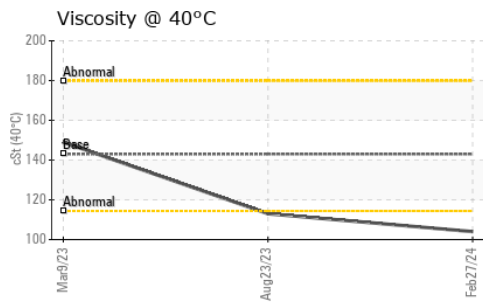
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >20 | 2 | 5 | 11 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | 1 |
| Water | | WC Method | >.2 | 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* | >.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|---------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185(m) | >170 | 1 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | 400 | 278 | 223 | 11 |
| Barium | ppm | ASTM D5185(m) | 200 | 0 | <1 | 2 |
| Molybdenum | ppm | ASTM D5185(m) | 12 | 0 | <1 | 1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | 1 |
| Magnesium | ppm | ASTM D5185(m) | 12 | <1 | 2 | 1 |
| Calcium | ppm | ASTM D5185(m) | 150 | 24 | 58 | 201 |
| Phosphorus | ppm | ASTM D5185(m) | 1650 | 1134 | 1384 | 1595 |
| Zinc | ppm | ASTM D5185(m) | 125 | 15 | 26 | 50 |
| Sulfur | ppm | ASTM D5185(m) | 22500 | 19404 | 20295 | 20052 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 143 | 104 | 113 | 149 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0270191 **Received** : 28 Feb 2024
Lab Number : 02618763 **Tested** : 28 Feb 2024
Unique Number : 5735873 **Diagnosed** : 28 Feb 2024 - Wes Davis
Test Package : MOB 1

American Iron and Metal
 140 DOWTY ROAD
 AJAX, ON
 CA L1S 1P7
 Contact: Service Manager

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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