



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR A924 019013-957**  
Component  
**Front Left Wheel Hub**  
Fluid  
**NOT GIVEN (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

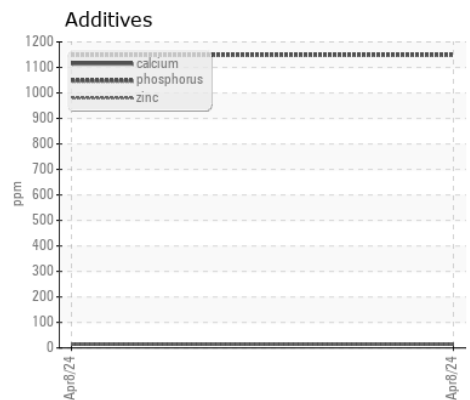
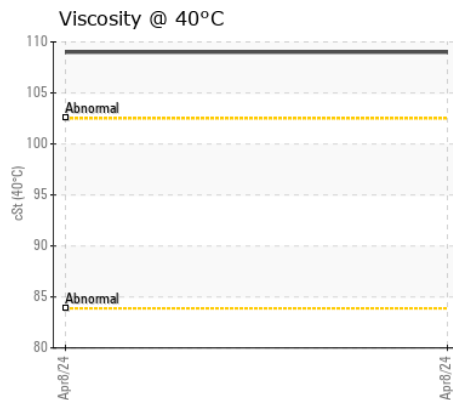
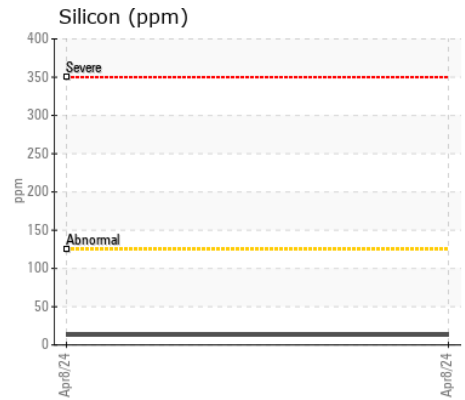
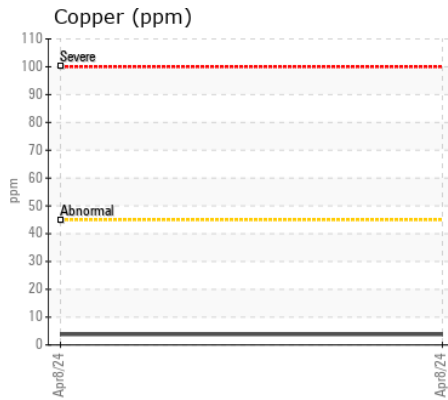
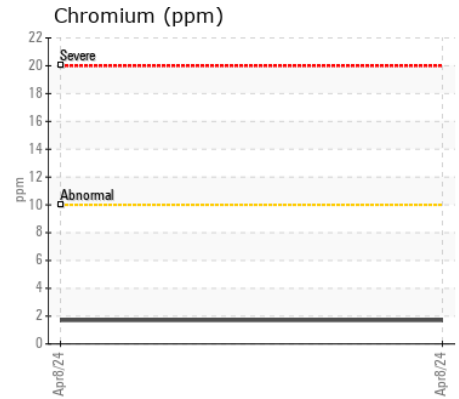
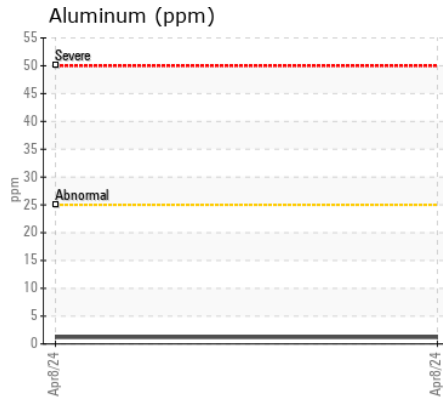
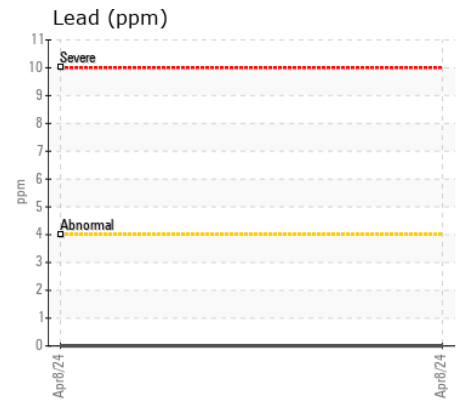
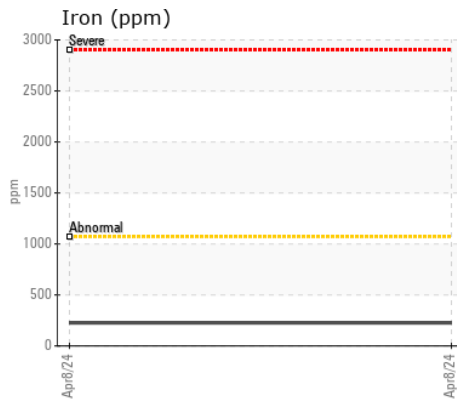
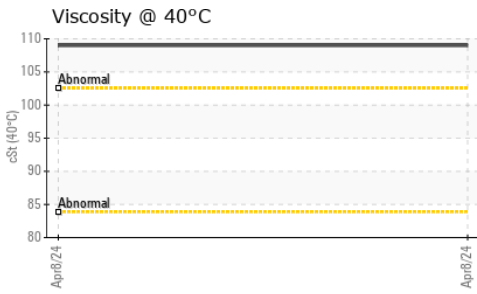
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

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

| Test             | UOM    | Method        | Limit/Abn | Current     | History1 | History2 |
|------------------|--------|---------------|-----------|-------------|----------|----------|
| Sample Number    |        | Client Info   |           | LH          | ---      | ---      |
| Sample Date      |        | Client Info   |           | 08 Apr 2024 | ---      | ---      |
| Machine Age      | hrs    | Client Info   |           | 0           | ---      | ---      |
| Oil Age          | hrs    | Client Info   |           | 0           | ---      | ---      |
| Filter Age       | hrs    | Client Info   |           | 0           | ---      | ---      |
| Oil Changed      |        | Client Info   |           | N/A         | ---      | ---      |
| Filter Changed   |        | Client Info   |           | N/A         | ---      | ---      |
| Sample Status    |        |               |           | NORMAL      | ---      | ---      |
| Iron             | ppm    | ASTM D5185(m) | >1070     | 226         | ---      | ---      |
| Chromium         | ppm    | ASTM D5185(m) | >10       | 2           | ---      | ---      |
| Nickel           | ppm    | ASTM D5185(m) | >4        | <1          | ---      | ---      |
| Titanium         | ppm    | ASTM D5185(m) |           | <1          | ---      | ---      |
| Silver           | ppm    | ASTM D5185(m) |           | 0           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185(m) | >25       | 1           | ---      | ---      |
| Lead             | ppm    | ASTM D5185(m) | >4        | 0           | ---      | ---      |
| Copper           | ppm    | ASTM D5185(m) | >45       | 4           | ---      | ---      |
| Tin              | ppm    | ASTM D5185(m) | >4        | 0           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185(m) |           | 0           | ---      | ---      |
| White Metal      | scalar | Visual*       | NONE      | LIGHT       | ---      | ---      |
| Yellow Metal     | scalar | Visual*       | NONE      | NONE        | ---      | ---      |
| Silicon          | ppm    | ASTM D5185(m) | >125      | 13          | ---      | ---      |
| Potassium        | ppm    | ASTM D5185(m) | >20       | <1          | ---      | ---      |
| Water            |        | WC Method     | >0.2      | NEG         | ---      | ---      |
| Silt             | scalar | Visual*       | NONE      | NONE        | ---      | ---      |
| Debris           | scalar | Visual*       | NONE      | NONE        | ---      | ---      |
| Sand/Dirt        | scalar | Visual*       | NONE      | NONE        | ---      | ---      |
| Appearance       | scalar | Visual*       | NORML     | NORML       | ---      | ---      |
| Odor             | scalar | Visual*       | NORML     | NORML       | ---      | ---      |
| Emulsified Water | scalar | Visual*       | >0.2      | NEG         | ---      | ---      |
| Sodium           | ppm    | ASTM D5185(m) |           | <1          | ---      | ---      |
| Boron            | ppm    | ASTM D5185(m) |           | 275         | ---      | ---      |
| Barium           | ppm    | ASTM D5185(m) |           | 1           | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185(m) |           | 0           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185(m) |           | 1           | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185(m) |           | 4           | ---      | ---      |
| Calcium          | ppm    | ASTM D5185(m) |           | 15          | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185(m) |           | 1149        | ---      | ---      |
| Zinc             | ppm    | ASTM D5185(m) |           | 14          | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185(m) |           | 20917       | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D7279(m) |           | 109         | ---      | ---      |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH **Received** : 22 Apr 2024  
**Lab Number** : 02630737 **Tested** : 22 Apr 2024  
**Unique Number** : 5763869 **Diagnosed** : 23 Apr 2024 - Kevin Marson  
**Test Package** : MOB 1

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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