



# LIEBHERR

## OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Area  
**(357696)**  
Machine Id  
**LIEBHERR LH50M 133969-1216**  
Component  
**Transmission**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>LH0286524</b>   | LH0247432   | LH0239535   |
| Sample Date    |     | Client Info |           | <b>04 Mar 2024</b> | 15 Dec 2022 | 19 Aug 2022 |
| Machine Age    | hrs | Client Info |           | <b>3503</b>        | 1867        | 1605        |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | Changed     | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |               |      |              |      |      |
|--------------|--------|---------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185(m) | >148 | <b>77</b>    | 51   | 22   |
| Chromium     | ppm    | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1   | 0    |
| Nickel       | ppm    | ASTM D5185(m) | >4   | <b>&lt;1</b> | <1   | 0    |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1   | <1   |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185(m) | >5   | <b>2</b>     | 2    | 1    |
| Lead         | ppm    | ASTM D5185(m) | >203 | <b>2</b>     | 3    | <1   |
| Copper       | ppm    | ASTM D5185(m) | >520 | <b>82</b>    | 111  | 25   |
| Tin          | ppm    | ASTM D5185(m) | >7   | <b>3</b>     | 3    | 1    |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | <1   | 0    |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

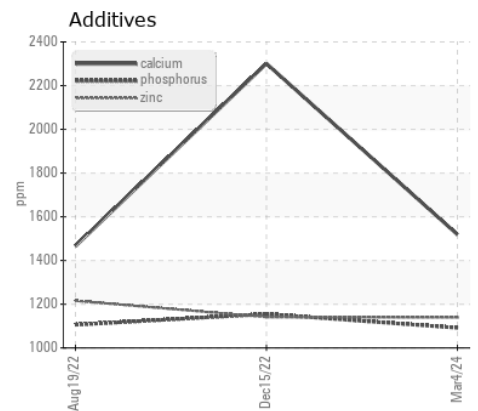
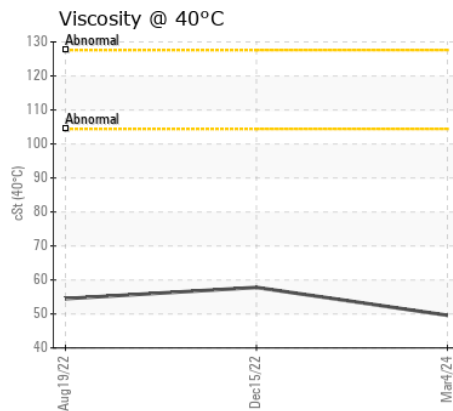
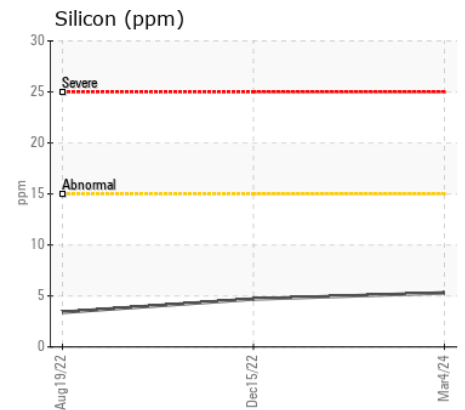
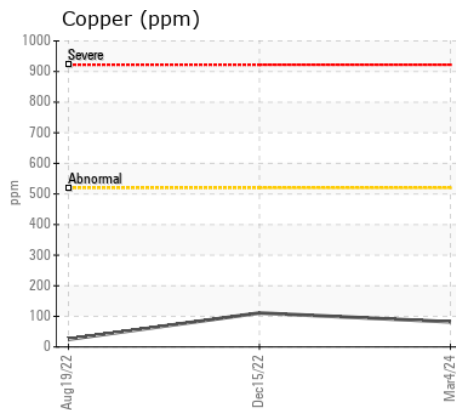
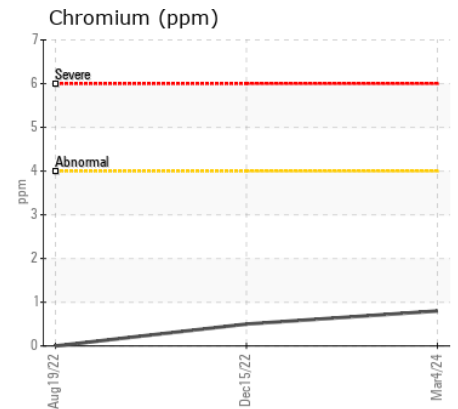
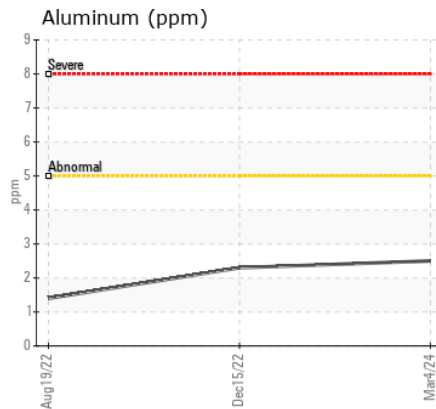
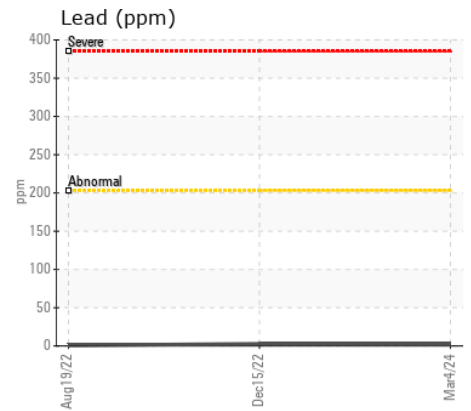
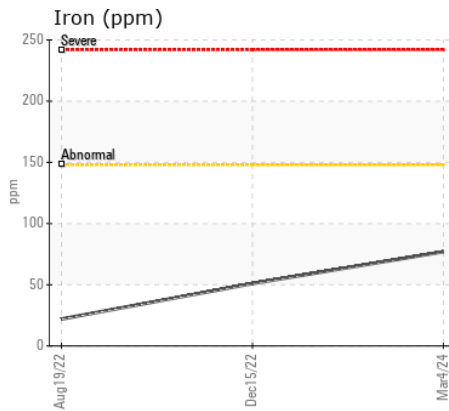
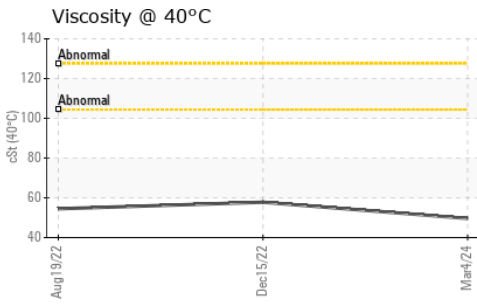
There is no indication of any contamination in the fluid.

|                  |        |               |       |              |       |       |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185(m) | >15   | <b>5</b>     | 5     | 3     |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>2</b>     | 2     | 2     |
| Water            |        | WC Method     | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | VLITE |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | Visual*       | >0.1  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |               |  |              |      |      |
|-------------|-----|---------------|--|--------------|------|------|
| Sodium      | ppm | ASTM D5185(m) |  | <b>12</b>    | 17   | 10   |
| Boron       | ppm | ASTM D5185(m) |  | <b>33</b>    | 4    | 7    |
| Barium      | ppm | ASTM D5185(m) |  | <b>&lt;1</b> | <1   | <1   |
| Molybdenum  | ppm | ASTM D5185(m) |  | <b>43</b>    | 30   | 52   |
| Manganese   | ppm | ASTM D5185(m) |  | <b>31</b>    | 37   | 11   |
| Magnesium   | ppm | ASTM D5185(m) |  | <b>783</b>   | 481  | 846  |
| Calcium     | ppm | ASTM D5185(m) |  | <b>1519</b>  | 2301 | 1466 |
| Phosphorus  | ppm | ASTM D5185(m) |  | <b>1092</b>  | 1155 | 1106 |
| Zinc        | ppm | ASTM D5185(m) |  | <b>1140</b>  | 1141 | 1216 |
| Sulfur      | ppm | ASTM D5185(m) |  | <b>4363</b>  | 5523 | 3814 |
| Visc @ 40°C | cSt | ASTM D7279(m) |  | <b>49.6</b>  | 57.8 | 54.5 |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0286524 **Received** : 07 Mar 2024  
**Lab Number** : 02620616 **Tested** : 07 Mar 2024  
**Unique Number** : 5737726 **Diagnosed** : 07 Mar 2024 - Kevin Marson  
**Test Package** : MOB 1

**PRIESTLY DEMOLITION**  
 3200 LLOYDTOWN AURORA RD  
 KING, ON  
 CA L0G 1J0  
 Contact: Krystal Breedon  
 kbreedon@priestly.ca

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.

T:  
F: