



# LIEBHERR

## OIL ANALYSIS REPORT

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



Area  
**(374940)**  
Machine Id  
**LIEBHERR LH30M 137944-1253**  
Component  
**Rear Left Wheel Hub**  
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>LH0278723</b>   | LH0239298   | ---      |
| Sample Date    |     | Client Info |           | <b>22 Feb 2024</b> | 31 Aug 2022 | ---      |
| Machine Age    | hrs | Client Info |           | <b>2777</b>        | 551         | ---      |
| Oil Age        | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |               |      |              |      |     |
|--------------|--------|---------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185(m) | >450 | <b>6</b>     | 5    | --- |
| Chromium     | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | 0    | --- |
| Nickel       | ppm    | ASTM D5185(m) | >2   | <b>&lt;1</b> | 0    | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >15  | <b>&lt;1</b> | <1   | --- |
| Lead         | ppm    | ASTM D5185(m) | >4   | <b>0</b>     | 0    | --- |
| Copper       | ppm    | ASTM D5185(m) | >75  | <b>7</b>     | 3    | --- |
| Tin          | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

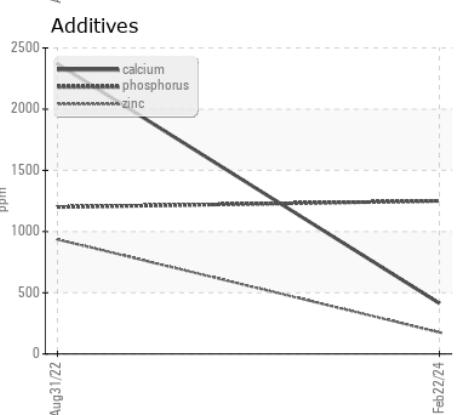
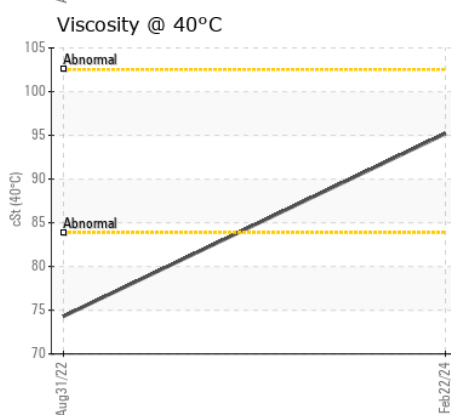
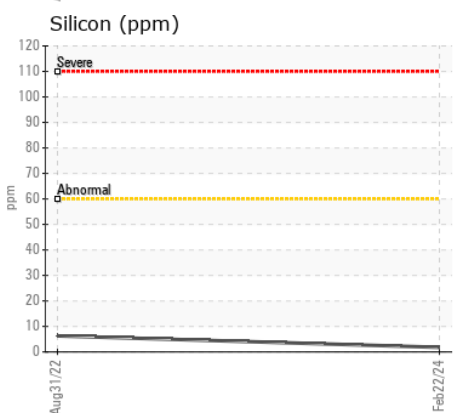
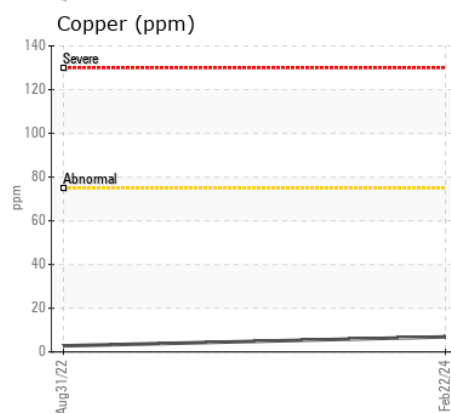
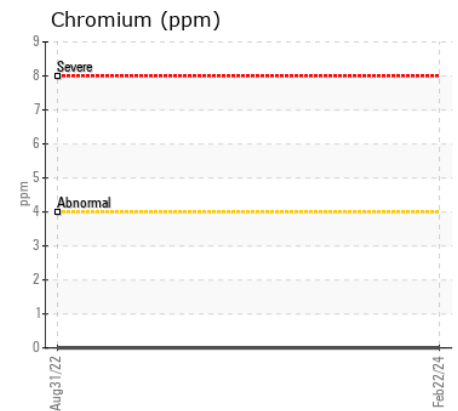
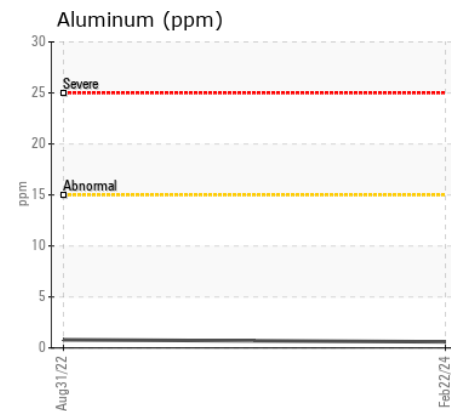
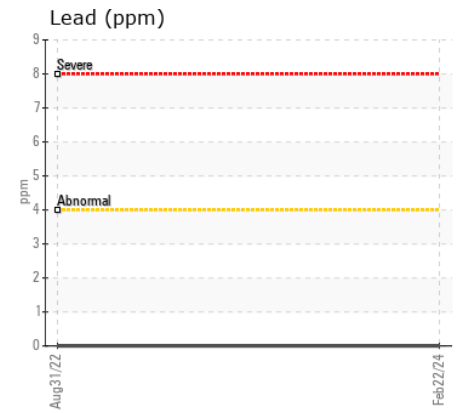
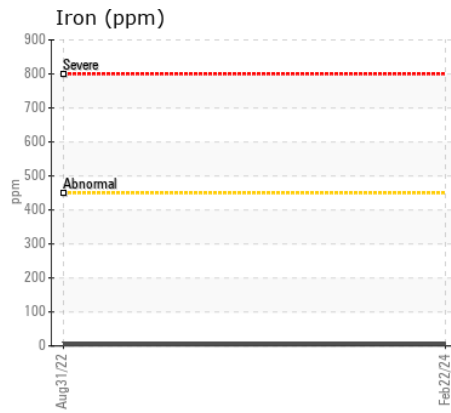
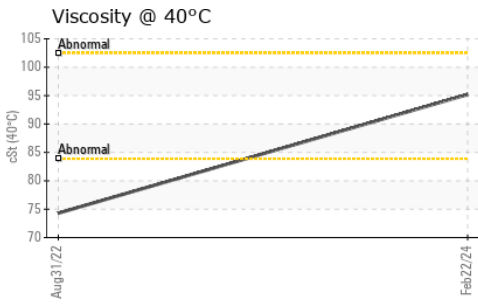
There is no indication of any contamination in the oil.

|                  |        |               |       |              |       |     |
|------------------|--------|---------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185(m) | >60   | <b>2</b>     | 6     | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20   | <b>&lt;1</b> | 1     | --- |
| Water            |        | WC Method     | >0.2  | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | Visual*       | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | Visual*       | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | Visual*       | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | Visual*       | >0.2  | <b>NEG</b>   | NEG   | --- |

### FLUID CONDITION

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

|             |     |               |  |              |      |     |
|-------------|-----|---------------|--|--------------|------|-----|
| Sodium      | ppm | ASTM D5185(m) |  | <b>3</b>     | 10   | --- |
| Boron       | ppm | ASTM D5185(m) |  | <b>255</b>   | 160  | --- |
| Barium      | ppm | ASTM D5185(m) |  | <b>&lt;1</b> | 0    | --- |
| Molybdenum  | ppm | ASTM D5185(m) |  | <b>0</b>     | 0    | --- |
| Manganese   | ppm | ASTM D5185(m) |  | <b>0</b>     | 2    | --- |
| Magnesium   | ppm | ASTM D5185(m) |  | <b>4</b>     | 8    | --- |
| Calcium     | ppm | ASTM D5185(m) |  | <b>414</b>   | 2370 | --- |
| Phosphorus  | ppm | ASTM D5185(m) |  | <b>1250</b>  | 1200 | --- |
| Zinc        | ppm | ASTM D5185(m) |  | <b>176</b>   | 936  | --- |
| Sulfur      | ppm | ASTM D5185(m) |  | <b>18432</b> | 8044 | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) |  | <b>95.2</b>  | 74.3 | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0278723 **Received** : 23 Feb 2024  
**Lab Number** : 02617728 **Tested** : 23 Feb 2024  
**Unique Number** : 5734838 **Diagnosed** : 23 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**KINGS AUTO WRECKERS**  
 1866 DRUMMOND LINE  
 PETERBOROUGH, ON  
 CA K9J 6X8  
 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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F: