



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L550 076577-1825**  
Component  
**Rear Left Wheel Hub**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | LH0290654   | ---      | ---      |
| Sample Date    |     | Client Info |           | 11 Jun 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 541         | ---      | ---      |
| 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      | ---      | ---      |

### WEAR

Metal levels are typical for a new component breaking in.

|              |        |               |      |      |     |     |
|--------------|--------|---------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185(m) | >500 | 267  | --- | --- |
| Chromium     | ppm    | ASTM D5185(m) | >8   | 2    | --- | --- |
| Nickel       | ppm    | ASTM D5185(m) | >5   | 4    | --- | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185(m) |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >5   | 2    | --- | --- |
| Lead         | ppm    | ASTM D5185(m) | >5   | 2    | --- | --- |
| Copper       | ppm    | ASTM D5185(m) | >50  | 91   | --- | --- |
| Tin          | ppm    | ASTM D5185(m) |      | 7    | --- | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | 0    | --- | --- |
| White Metal  | scalar | Visual*       | NONE | NONE | --- | --- |
| Yellow Metal | scalar | Visual*       | NONE | NONE | --- | --- |

### CONTAMINATION

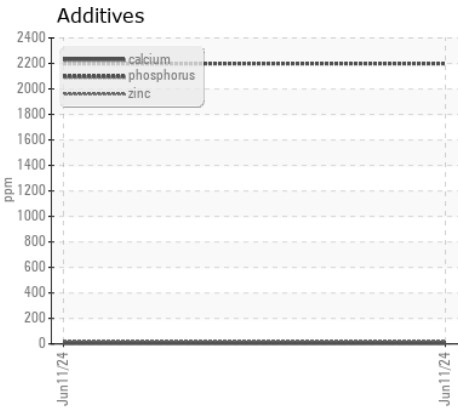
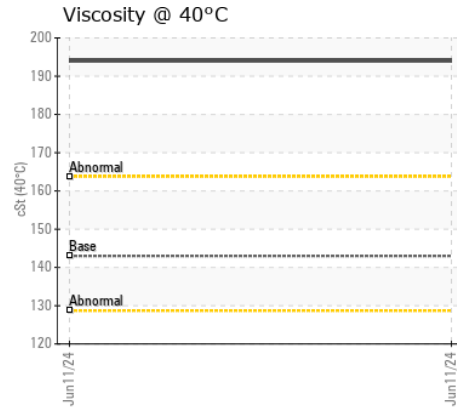
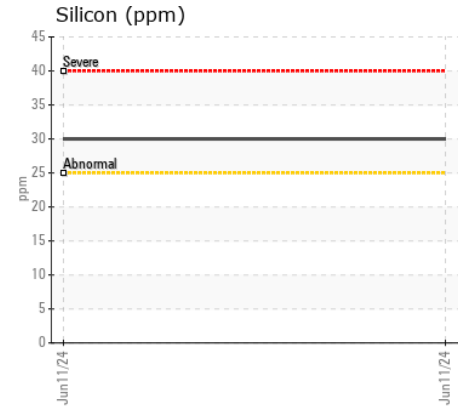
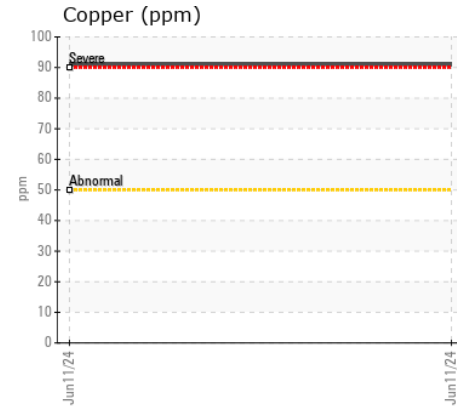
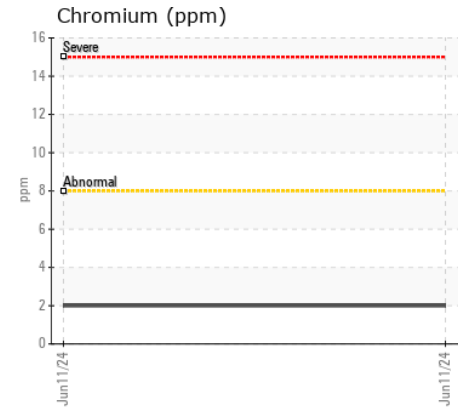
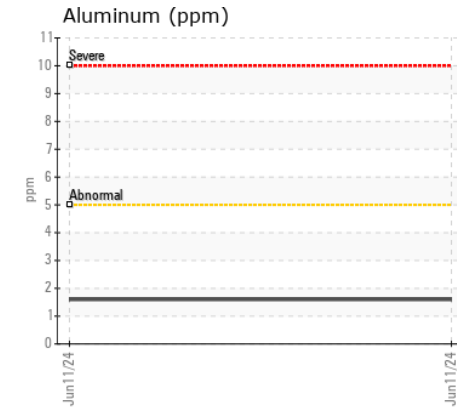
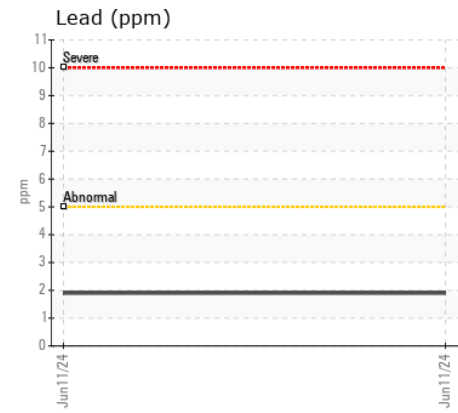
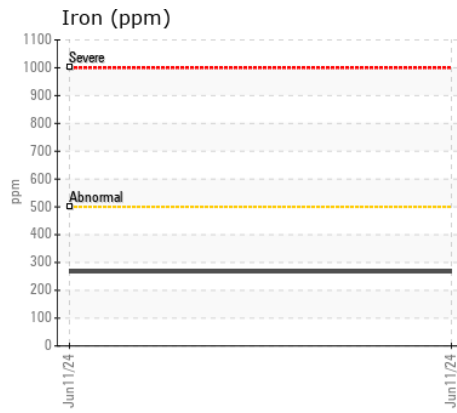
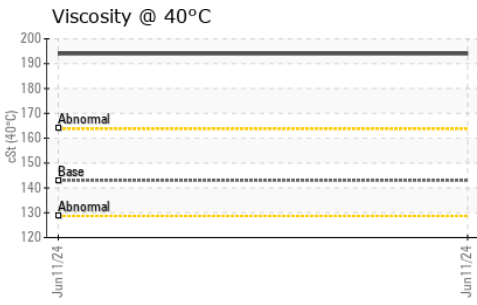
There is no indication of any contamination in the oil.

|                  |        |               |       |       |     |     |
|------------------|--------|---------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185(m) | >25   | 30    | --- | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20   | 0     | --- | --- |
| Water            |        | WC Method     | >0.2  | NEG   | --- | --- |
| Silt             | scalar | Visual*       | NONE  | NONE  | --- | --- |
| Debris           | scalar | Visual*       | NONE  | NONE  | --- | --- |
| Sand/Dirt        | scalar | Visual*       | NONE  | VLITE | --- | --- |
| Appearance       | scalar | Visual*       | NORML | NORML | --- | --- |
| Odor             | scalar | Visual*       | NORML | NORML | --- | --- |
| Emulsified Water | scalar | Visual*       | >0.2  | NEG   | --- | --- |

### FLUID CONDITION

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

|             |     |               |       |       |     |     |
|-------------|-----|---------------|-------|-------|-----|-----|
| Sodium      | ppm | ASTM D5185(m) | >170  | 6     | --- | --- |
| Boron       | ppm | ASTM D5185(m) | 400   | 2     | --- | --- |
| Barium      | ppm | ASTM D5185(m) | 200   | <1    | --- | --- |
| Molybdenum  | ppm | ASTM D5185(m) | 12    | 0     | --- | --- |
| Manganese   | ppm | ASTM D5185(m) |       | 21    | --- | --- |
| Magnesium   | ppm | ASTM D5185(m) | 12    | 3     | --- | --- |
| Calcium     | ppm | ASTM D5185(m) | 150   | 6     | --- | --- |
| Phosphorus  | ppm | ASTM D5185(m) | 1650  | 2199  | --- | --- |
| Zinc        | ppm | ASTM D5185(m) | 125   | 24    | --- | --- |
| Sulfur      | ppm | ASTM D5185(m) | 22500 | 25014 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 143   | 194   | --- | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0290654 **Received** : 14 Jun 2024  
**Lab Number** : 02642077 **Tested** : 14 Jun 2024  
**Unique Number** : 5799616 **Diagnosed** : 17 Jun 2024 - Kevin Marson  
**Test Package** : MOB 1

**142975 CANADA LTEE (MIRONOR)**  
 751 CH DE LA 2E CONCESSION  
 BROWNSBURG-CHATHAM, QC  
 CA J8G 1S9  
 Contact: Francis Sylvestre

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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