



LIEBHERR

OIL ANALYSIS REPORT

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



Machine Id
LIEBHERR LH60M 143695-1475
Component
Rear Left Wheel Hub
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 80W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

WEAR

Moderate concentration of visible metal present. Gear wear is indicated.

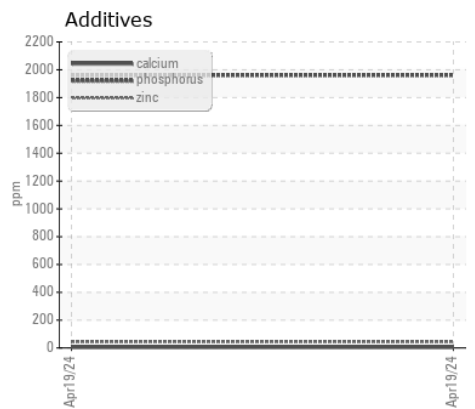
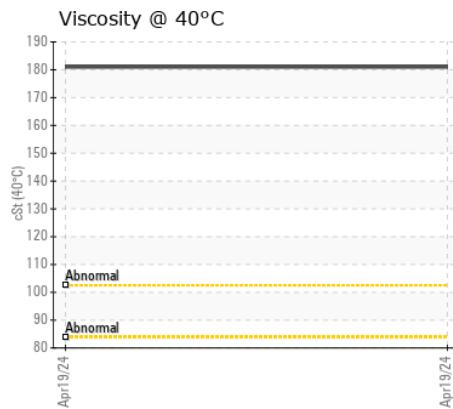
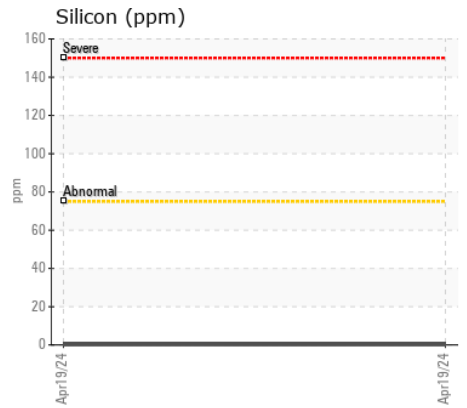
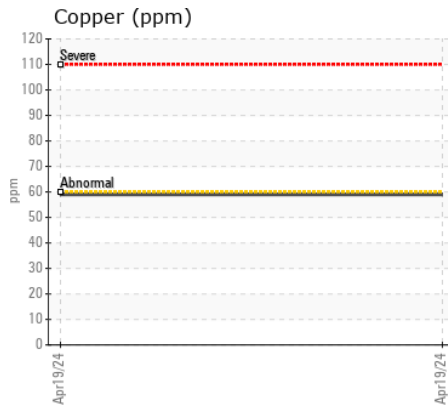
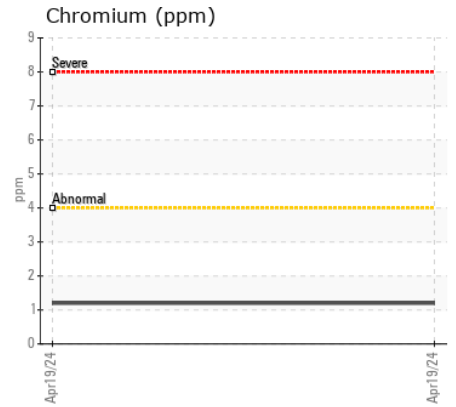
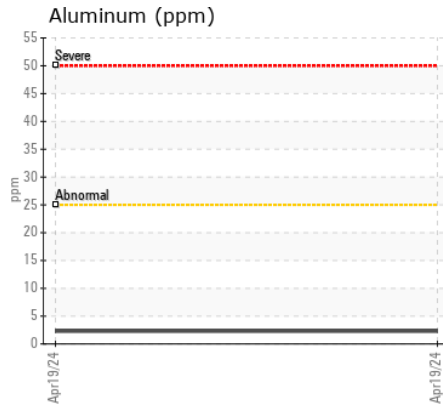
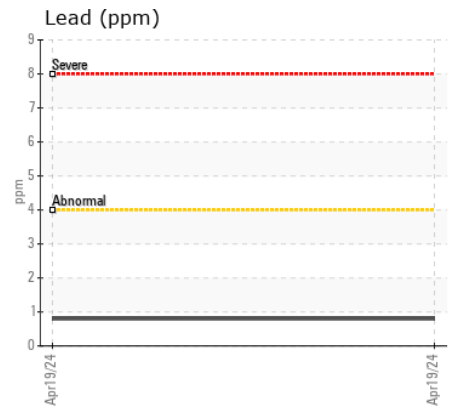
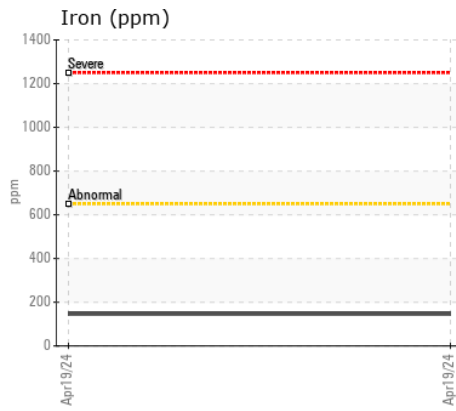
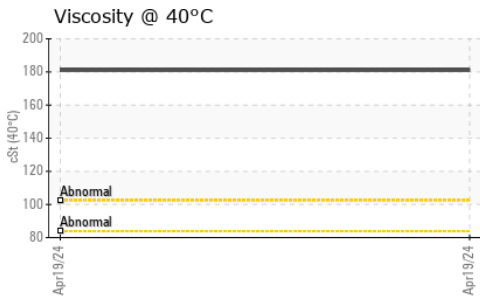
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|------------------|--------|---------------|-----------|--------------------|----------|----------|
| Sample Number | | Client Info | | LH0248612 | --- | --- |
| Sample Date | | Client Info | | 19 Apr 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 1001 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Changed | --- | --- |
| Filter Changed | | Client Info | | None | --- | --- |
| Sample Status | | | | ABNORMAL | --- | --- |
| <hr/> | | | | | | |
| Iron | ppm | ASTM D5185(m) | >650 | 146 | --- | --- |
| Chromium | ppm | ASTM D5185(m) | >4 | 1 | --- | --- |
| Nickel | ppm | ASTM D5185(m) | >4 | <1 | --- | --- |
| Titanium | ppm | ASTM D5185(m) | >4 | 0 | --- | --- |
| Silver | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185(m) | >25 | 2 | --- | --- |
| Lead | ppm | ASTM D5185(m) | >4 | <1 | --- | --- |
| Copper | ppm | ASTM D5185(m) | >60 | 59 | --- | --- |
| Tin | ppm | ASTM D5185(m) | >4 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185(m) | | 0 | --- | --- |
| White Metal | scalar | Visual* | NONE | ▲ MODER | --- | --- |
| Yellow Metal | scalar | Visual* | NONE | NONE | --- | --- |
| <hr/> | | | | | | |
| Silicon | ppm | ASTM D5185(m) | >75 | <1 | --- | --- |
| 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 | --- | --- |
| <hr/> | | | | | | |
| Sodium | ppm | ASTM D5185(m) | | 2 | --- | --- |
| Boron | ppm | ASTM D5185(m) | | 1 | --- | --- |
| Barium | ppm | ASTM D5185(m) | | 95 | --- | --- |
| Molybdenum | ppm | ASTM D5185(m) | | 0 | --- | --- |
| Manganese | ppm | ASTM D5185(m) | | 5 | --- | --- |
| Magnesium | ppm | ASTM D5185(m) | | <1 | --- | --- |
| Calcium | ppm | ASTM D5185(m) | | 6 | --- | --- |
| Phosphorus | ppm | ASTM D5185(m) | | 1961 | --- | --- |
| Zinc | ppm | ASTM D5185(m) | | 44 | --- | --- |
| Sulfur | ppm | ASTM D5185(m) | | 26515 | --- | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 181 | --- | --- |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0248612 **Received** : 26 Apr 2024
Lab Number : 02631741 **Tested** : 30 Apr 2024
Unique Number : 5772894 **Diagnosed** : 30 Apr 2024 - Kevin Marson
Test Package : MOBCE (Additional Tests: Bottom, BottomAnalysis, FilterPatch)

Groupe Lebel Inc
 21 rue St-Joseph
 Saint-Michel-de-Squatec, QC
 CA G0L 4H0
 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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