



LIEBHERR

OIL ANALYSIS REPORT

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



Machine Id
LIEBHERR LH50M 124712-1216
Component
Rear Right Wheel Hub
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | LH0277313 | LH0265520 | LH0243027 |
| Sample Date | | Client Info | | 16 Jan 2024 | 07 Jun 2023 | 09 Dec 2022 |
| Machine Age | hrs | Client Info | | 12176 | 10063 | 8175 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | N/A |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

Les taux d'usure de tous les composants sont normaux.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >325 | 28 | 19 | 48 |
| Chromium | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Aluminum | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >4 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >75 | 1 | 2 | 5 |
| Tin | ppm | ASTM D5185(m) | >3 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| White Metal | scalar | Visual* | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | Visual* | NONE | NONE | NONE | NONE |

CONTAMINATION

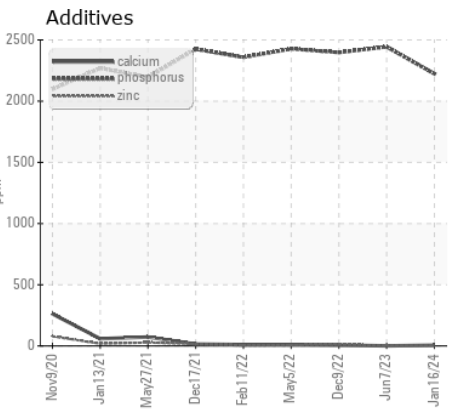
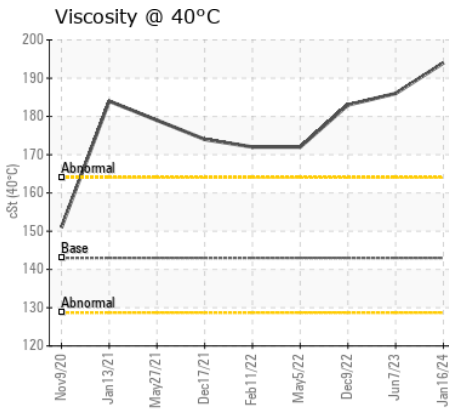
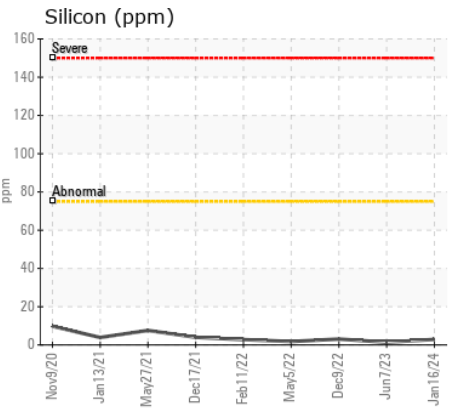
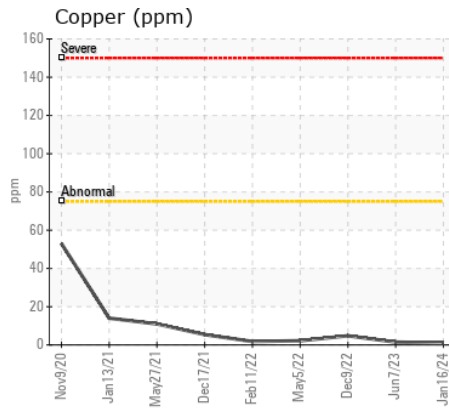
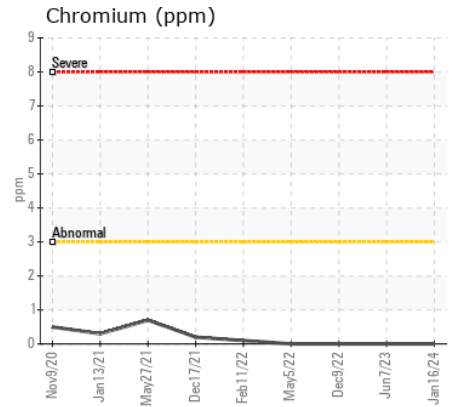
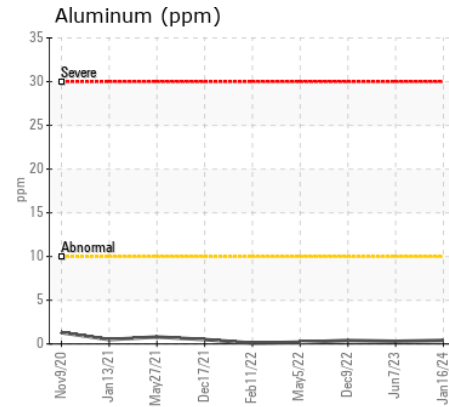
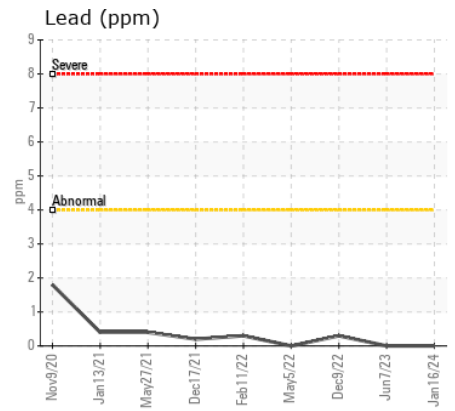
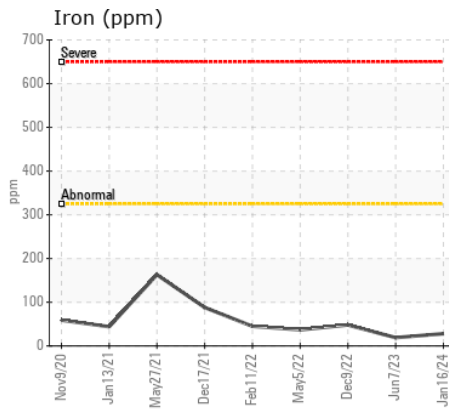
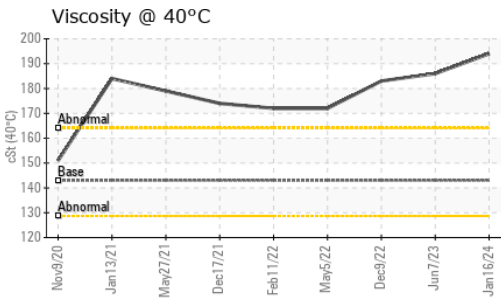
Il n'y a aucun indice de contamination dans l'huile.

| | | | | | | |
|------------------|--------|---------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185(m) | >75 | 3 | 1 | 3 |
| Potassium | ppm | ASTM D5185(m) | >20 | 1 | <1 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Debris | scalar | Visual* | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | Visual* | NONE | NONE | NONE | NONE |
| Appearance | scalar | Visual* | NORML | NORML | NORML | NORML |
| Odor | scalar | Visual* | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | Visual* | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

L'état de l'huile est acceptable pour la durée de service.

| | | | | | | |
|-------------|-----|---------------|-------|--------------|-------|-------|
| Sodium | ppm | ASTM D5185(m) | >170 | 1 | 2 | 2 |
| Boron | ppm | ASTM D5185(m) | 400 | <1 | <1 | 1 |
| Barium | ppm | ASTM D5185(m) | 200 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 12 | 0 | 0 | 0 |
| Manganese | ppm | ASTM D5185(m) | | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 12 | <1 | <1 | 2 |
| Calcium | ppm | ASTM D5185(m) | 150 | 6 | <1 | 7 |
| Phosphorus | ppm | ASTM D5185(m) | 1650 | 2224 | 2444 | 2397 |
| Zinc | ppm | ASTM D5185(m) | 125 | 5 | 3 | 11 |
| Sulfur | ppm | ASTM D5185(m) | 22500 | 24257 | 26922 | 29975 |
| Visc @ 40°C | cSt | ASTM D7279(m) | 143 | 194 | 186 | 183 |



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0277313 **Received** : 18 Jan 2024
Lab Number : 02609746 **Diagnosed** : 18 Jan 2024
Unique Number : 5710832 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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.