



LIEBHERR

OIL ANALYSIS REPORT

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



Area
(357696)
Machine Id
LIEBHERR LH50M 133969-1216
Component
Hydraulic System
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 | | LH0286525 | LH0281417 | LH0247077 |
| Sample Date | | Client Info | | 04 Mar 2024 | 30 Nov 2023 | 15 Dec 2022 |
| Machine Age | hrs | Client Info | | 3503 | 3145 | 1867 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | Not Changd | Not Changd |
| Filter Changed | | Client Info | | N/A | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|---------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185(m) | >50 | 12 | 9 | 4 |
| Chromium | ppm | ASTM D5185(m) | >5 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >2 | <1 | <1 | <1 |
| Lead | ppm | ASTM D5185(m) | >4 | <1 | <1 | <1 |
| Copper | ppm | ASTM D5185(m) | >10 | 3 | 3 | 2 |
| Tin | ppm | ASTM D5185(m) | >2 | 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

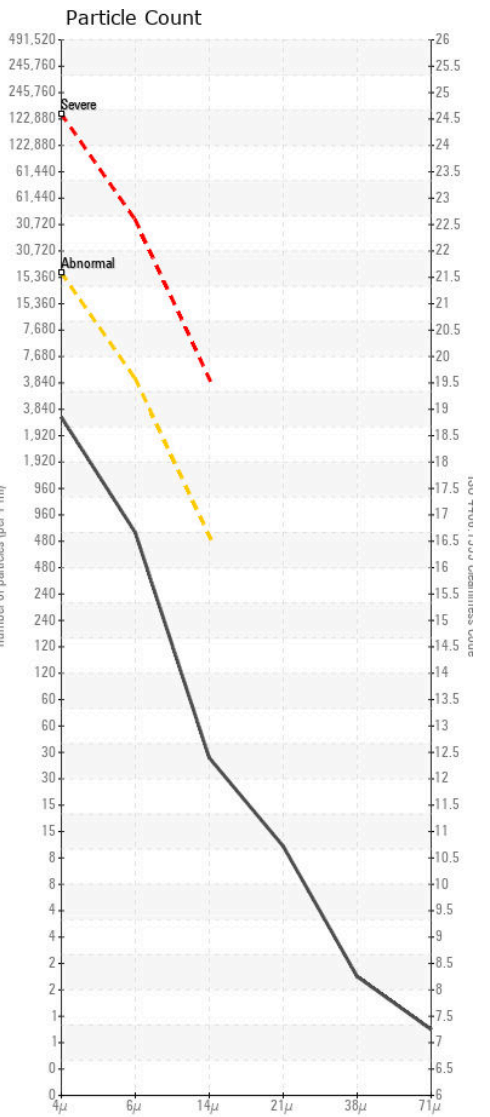
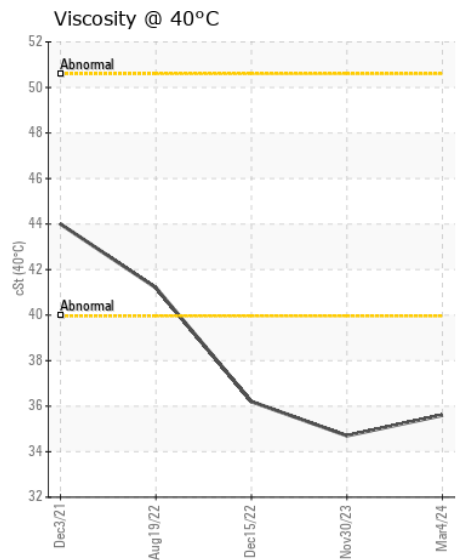
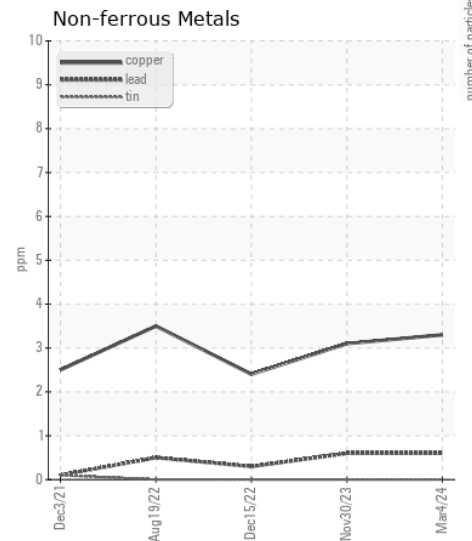
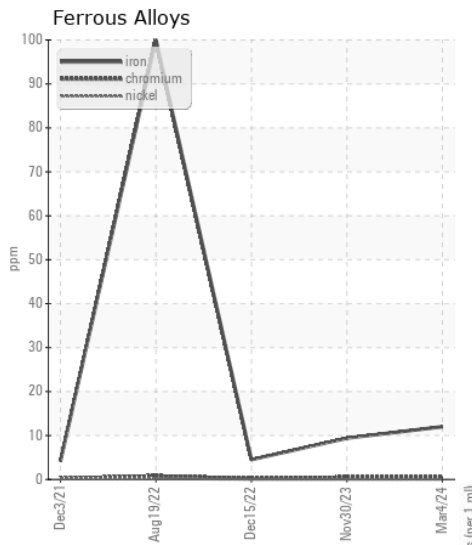
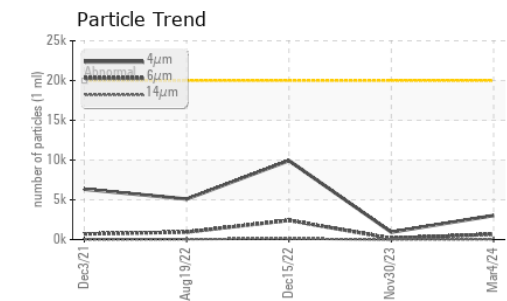
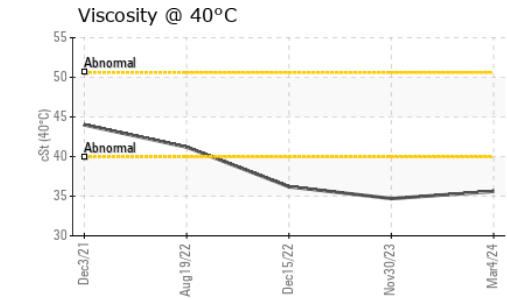
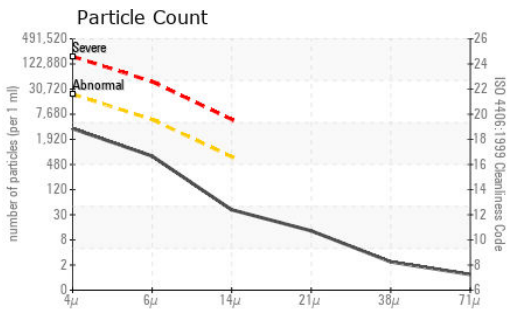
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

| | | | | | | |
|------------------|--------|---------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185(m) | >17 | 2 | 2 | 2 |
| Potassium | ppm | ASTM D5185(m) | >20 | 7 | <1 | <1 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >20000 | 3026 | 928 | 9931 |
| Particles >6µm | | ASTM D7647 | >5000 | 668 | 160 | 2420 |
| Particles >14µm | | ASTM D7647 | >640 | 35 | 5 | 111 |
| Particles >21µm | | ASTM D7647 | >160 | 11 | 2 | 19 |
| Particles >38µm | | ASTM D7647 | >40 | 2 | 1 | 0 |
| Particles >71µm | | ASTM D7647 | >10 | 1 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 19/17/12 | 17/14/10 | 20/18/14 |
| 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* | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|---------------|--|--------------|------|------|
| Sodium | ppm | ASTM D5185(m) | | 1 | 2 | <1 |
| Boron | ppm | ASTM D5185(m) | | 2 | 2 | <1 |
| Barium | ppm | ASTM D5185(m) | | 0 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185(m) | | 25 | 20 | 7 |
| Calcium | ppm | ASTM D5185(m) | | 667 | 692 | 902 |
| Phosphorus | ppm | ASTM D5185(m) | | 435 | 422 | 508 |
| Zinc | ppm | ASTM D5185(m) | | 502 | 515 | 536 |
| Sulfur | ppm | ASTM D5185(m) | | 2434 | 2403 | 2859 |
| Visc @ 40°C | cSt | ASTM D7279(m) | | 35.6 | 34.7 | 36.2 |



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286525 **Received** : 07 Mar 2024
Lab Number : 02620601 **Tested** : 08 Mar 2024
Unique Number : 5737711 **Diagnosed** : 08 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: PrtCount)

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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