



LIEBHERR

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(337755)
Machine Id
LIEBHERR L556 057483-1332
Component
Front Differential
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. 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		LH	---	---
Sample Date		Client Info		22 Jan 2024	---	---
Machine Age	hrs	Client Info		7383	---	---
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				ABNORMAL	---	---

WEAR

PQ levels are abnormal. Copper, iron and nickel ppm levels are abnormal. Gear wear is indicated. Thrust washer and/or bearing/bushing wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring.

PQ		ASTM D8184*	>500	▲ 692	---	---
Iron	ppm	ASTM D5185(m)	>1000	▲ 1331	---	---
Chromium	ppm	ASTM D5185(m)	>10	6	---	---
Nickel	ppm	ASTM D5185(m)	>2	▲ 3	---	---
Titanium	ppm	ASTM D5185(m)		0	---	---
Silver	ppm	ASTM D5185(m)		<1	---	---
Aluminum	ppm	ASTM D5185(m)	>25	5	---	---
Lead	ppm	ASTM D5185(m)	>5	4	---	---
Copper	ppm	ASTM D5185(m)	>100	▲ 141	---	---
Tin	ppm	ASTM D5185(m)	>10	7	---	---
Vanadium	ppm	ASTM D5185(m)		0	---	---
White Metal	scalar	Visual*	NONE	NONE	---	---
Yellow Metal	scalar	Visual*	NONE	NONE	---	---

CONTAMINATION

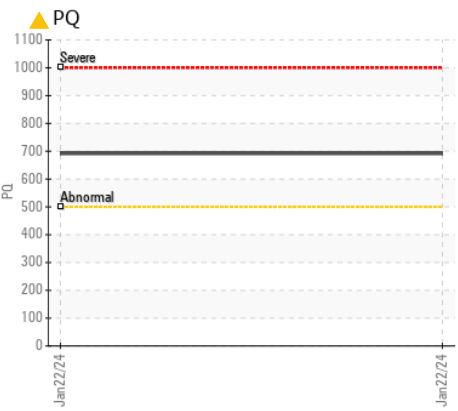
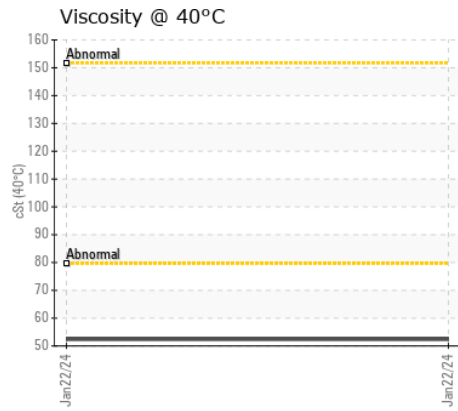
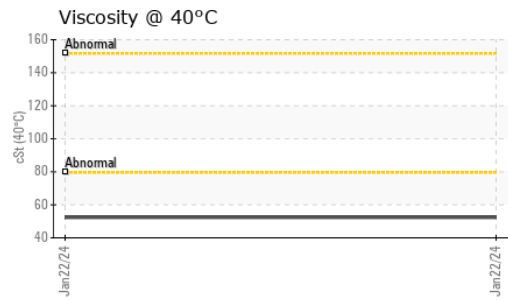
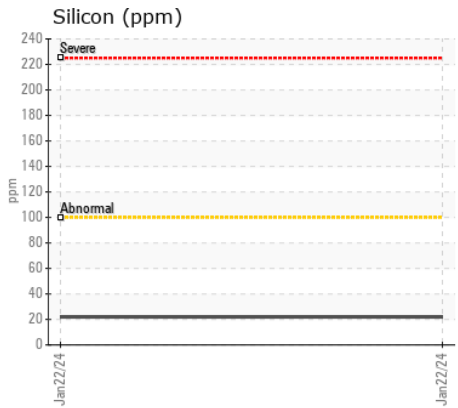
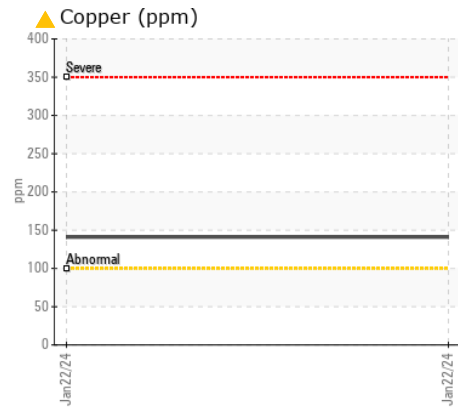
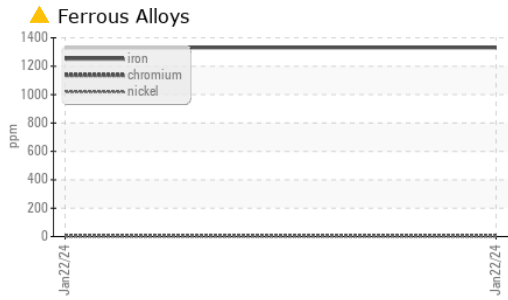
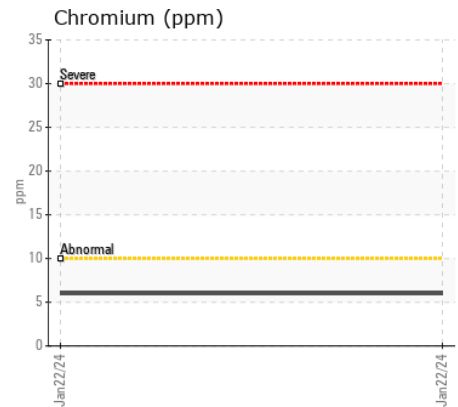
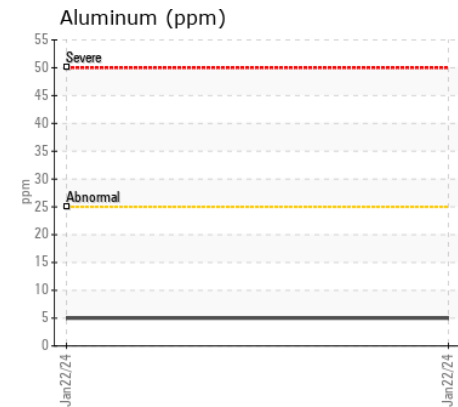
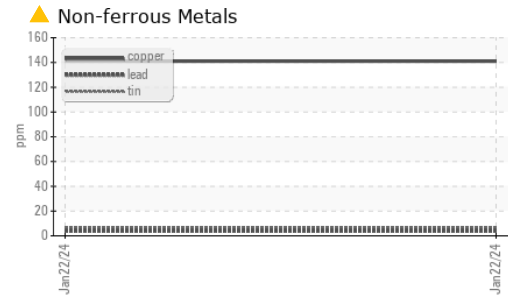
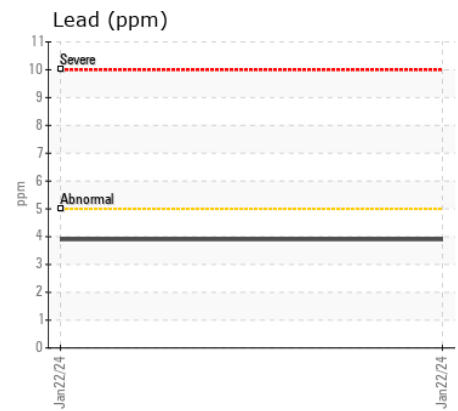
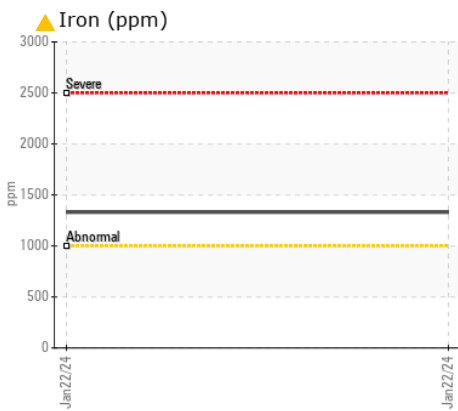
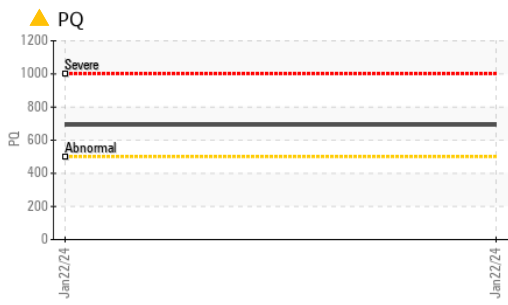
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>100	22	---	---
Potassium	ppm	ASTM D5185(m)	>20	2	---	---
Water		WC Method	>.2	NEG	---	---
Silt	scalar	Visual*	NONE	VLITE	---	---
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*	>.2	NEG	---	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		17	---	---
Boron	ppm	ASTM D5185(m)		94	---	---
Barium	ppm	ASTM D5185(m)		<1	---	---
Molybdenum	ppm	ASTM D5185(m)		217	---	---
Manganese	ppm	ASTM D5185(m)		72	---	---
Magnesium	ppm	ASTM D5185(m)		11	---	---
Calcium	ppm	ASTM D5185(m)		3378	---	---
Phosphorus	ppm	ASTM D5185(m)		1197	---	---
Zinc	ppm	ASTM D5185(m)		1365	---	---
Sulfur	ppm	ASTM D5185(m)		3392	---	---
Visc @ 40°C	cSt	ASTM D7279(m)		52.4	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 **LES CHARGEMENTS ERIC TURPIN**
Sample No. : LH **Received** : 23 Jan 2024 1170 CHEMIN DES VILLAS
Lab Number : 02610653 **Diagnosed** : 24 Jan 2024 MONT-LAURIER, QC
Unique Number : 5711739 **Diagnostician** : Kevin Marson CA J9L 3G7
Test Package : MOB 1 (Additional Tests: PQ) Contact: ERIC TURPIN

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.

T: (819)660-9886
 F: