



LIEBHERR

OIL ANALYSIS REPORT



Area
(357696)
Machine Id
LIEBHERR LH50M 133969-1216
Component
Rear Left Wheel Hub
Fluid
GEAR OIL SAE 90 (--- GAL)

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

RECOMMENDATION

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 (GENERIC) GEAR OIL SAE 90. Please confirm.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0286528	LH0230831	---
Sample Date		Client Info		04 Mar 2024	19 Aug 2022	---
Machine Age	hrs	Client Info		3503	1605	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185(m)	>325	113	21	---
Chromium	ppm	ASTM D5185(m)	>3	<1	0	---
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>10	5	<1	---
Lead	ppm	ASTM D5185(m)	>4	3	<1	---
Copper	ppm	ASTM D5185(m)	>75	▲ 82	6	---
Tin	ppm	ASTM D5185(m)	>3	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	LIGHT	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

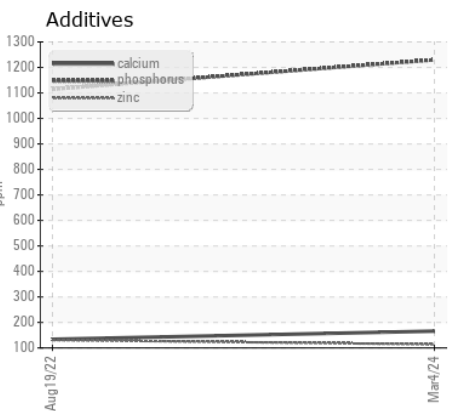
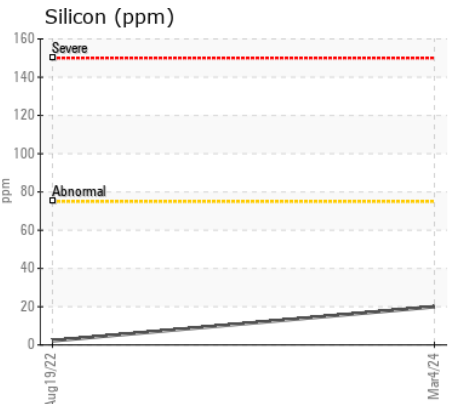
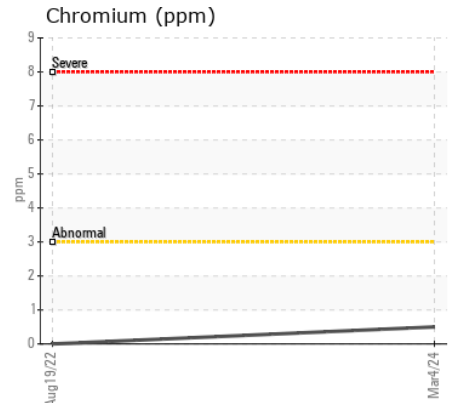
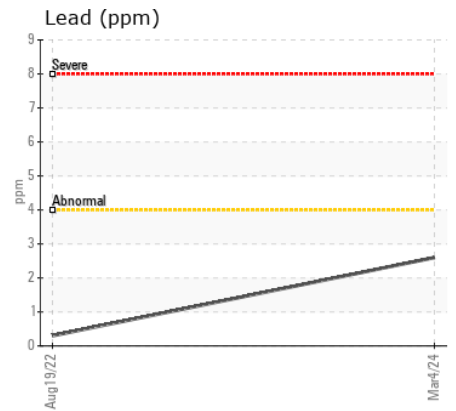
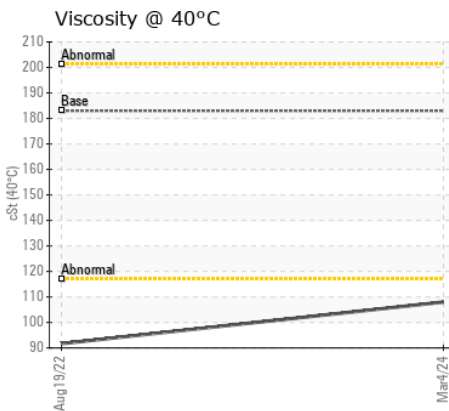
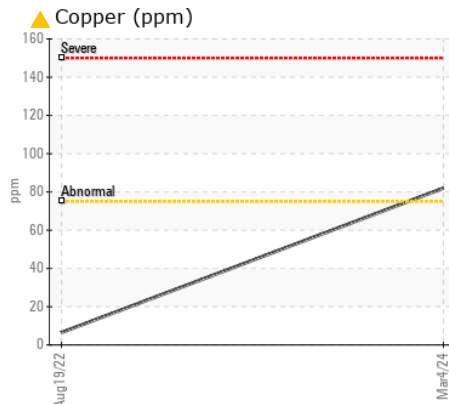
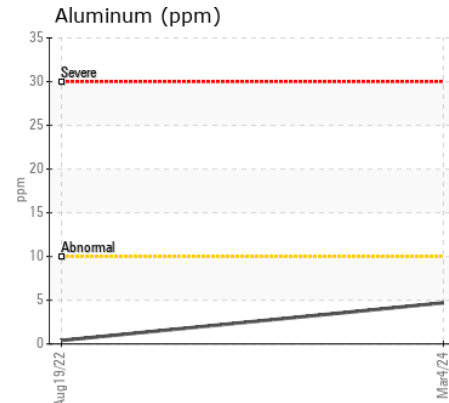
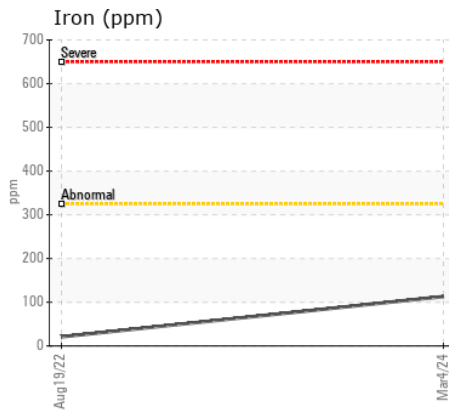
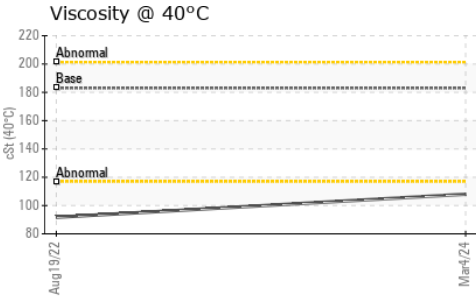
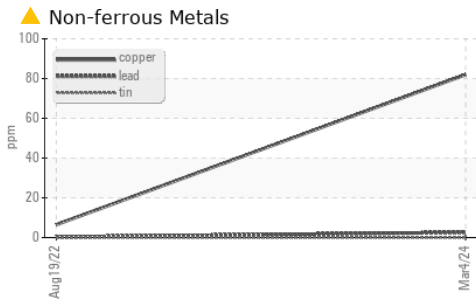
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	20	2	---
Potassium	ppm	ASTM D5185(m)	>20	2	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	LIGHT	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		8	1	---
Boron	ppm	ASTM D5185(m)	400	140	257	---
Barium	ppm	ASTM D5185(m)	200	0	0	---
Molybdenum	ppm	ASTM D5185(m)	12	2	0	---
Manganese	ppm	ASTM D5185(m)		5	<1	---
Magnesium	ppm	ASTM D5185(m)	12	3	1	---
Calcium	ppm	ASTM D5185(m)	150	166	134	---
Phosphorus	ppm	ASTM D5185(m)	1650	1230	1115	---
Zinc	ppm	ASTM D5185(m)	125	114	131	---
Sulfur	ppm	ASTM D5185(m)	22500	19875	18134	---
Visc @ 40°C	cSt	ASTM D7279(m)	183	108	91.7	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0286528 **Received** : 07 Mar 2024
Lab Number : 02620634 **Tested** : 07 Mar 2024
Unique Number : 5737744 **Diagnosed** : 07 Mar 2024 - Kevin Marson
Test Package : MOB 1

PRIESTLY DEMOLITION
 3200 LLOYDTOWN AURORA RD
 KING, ON
 CA L0G 1J0
 Contact: Krystal Breedon
 kbreedon@priestly.ca

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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F: