



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH60M 146313-1217
Component
Front Left Wheel Hub
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 75W90 Gear Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample.

WEAR

All component wear rates are normal.

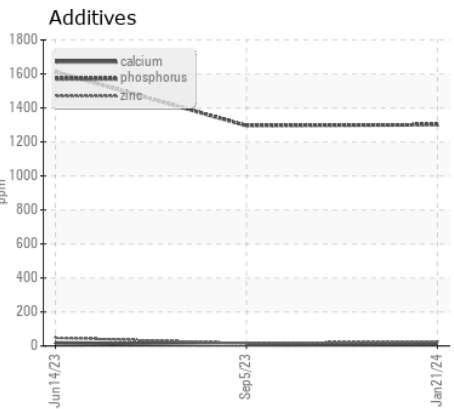
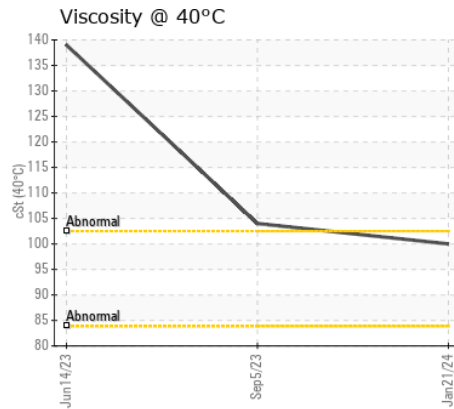
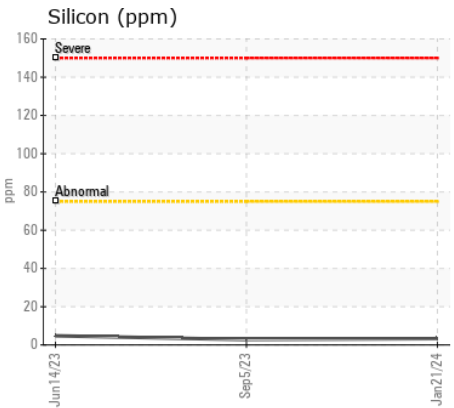
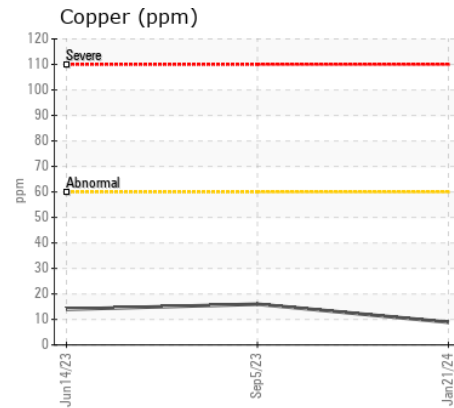
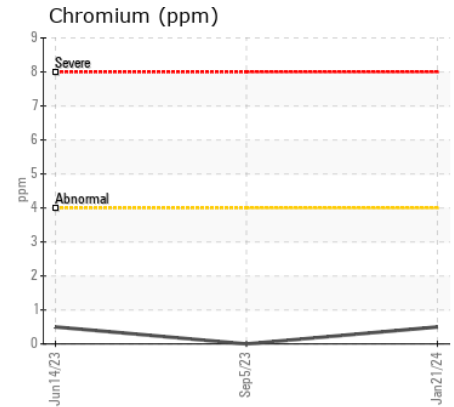
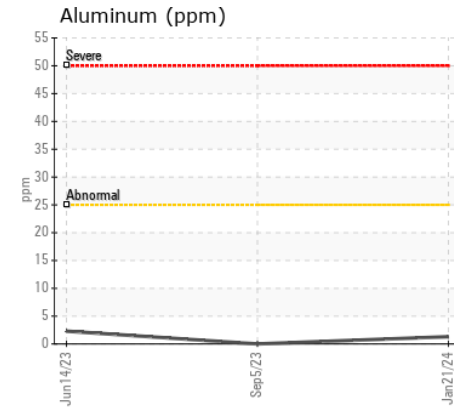
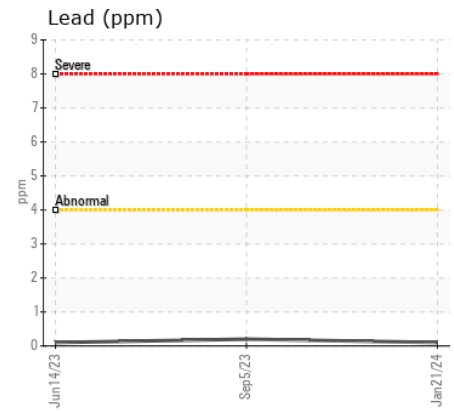
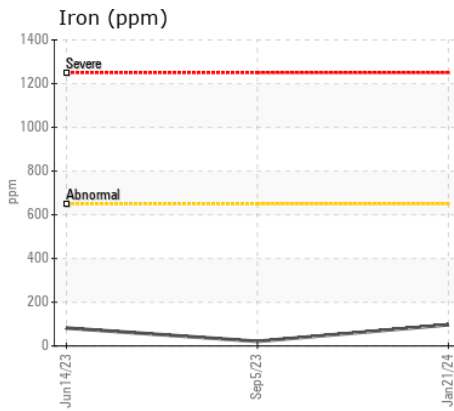
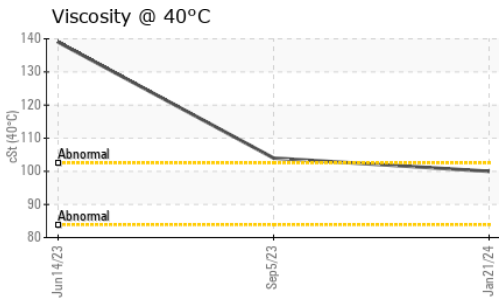
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0278933	LH0274549	LH0247197
Sample Date		Client Info		21 Jan 2024	05 Sep 2023	14 Jun 2023
Machine Age	hrs	Client Info		2083	1114	530
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
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Iron	ppm	ASTM D5185(m)	>650	97	21	82
Chromium	ppm	ASTM D5185(m)	>4	<1	0	<1
Nickel	ppm	ASTM D5185(m)	>4	0	0	<1
Titanium	ppm	ASTM D5185(m)	>4	0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	1	0	2
Lead	ppm	ASTM D5185(m)	>4	<1	<1	<1
Copper	ppm	ASTM D5185(m)	>60	9	16	14
Tin	ppm	ASTM D5185(m)	>4	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	VLITE	VLITE	LIGHT
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185(m)	>75	3	3	5
Potassium	ppm	ASTM D5185(m)	>20	2	<1	2
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	VLITE	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
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Sodium	ppm	ASTM D5185(m)		2	1	4
Boron	ppm	ASTM D5185(m)		264	301	128
Barium	ppm	ASTM D5185(m)		17	1	78
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		1	<1	3
Magnesium	ppm	ASTM D5185(m)		2	1	2
Calcium	ppm	ASTM D5185(m)		14	10	18
Phosphorus	ppm	ASTM D5185(m)		1301	1296	1612
Zinc	ppm	ASTM D5185(m)		25	15	48
Sulfur	ppm	ASTM D5185(m)		22040	21147	27186
Visc @ 40°C	cSt	ASTM D7279(m)		100	104	139



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0278933 **Received** : 22 Jan 2024
Lab Number : 02610390 **Diagnosed** : 22 Jan 2024
Unique Number : 5711476 **Diagnostician** : Wes Davis
Test Package : MOB 1

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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