



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH50M 123311-1216
Component
Front Differential
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289492	LH0261370	LH0242492
Sample Date		Client Info		25 Apr 2024	01 May 2023	24 Oct 2022
Machine Age	hrs	Client Info		8175	6153	5011
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		None	None	None
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>150	2	3	1
Chromium	ppm	ASTM D5185(m)	>2	0	0	0
Nickel	ppm	ASTM D5185(m)	>2	0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)	>4	0	0	0
Aluminum	ppm	ASTM D5185(m)	>7	0	<1	<1
Lead	ppm	ASTM D5185(m)	>4	0	<1	0
Copper	ppm	ASTM D5185(m)	>135	27	9	8
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

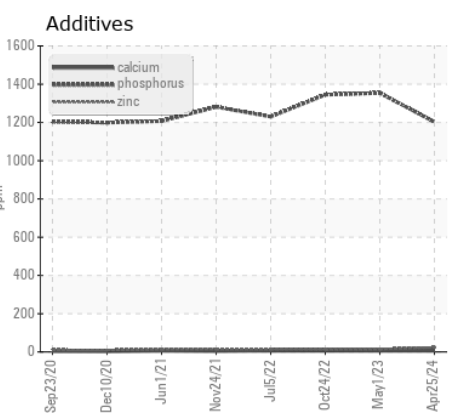
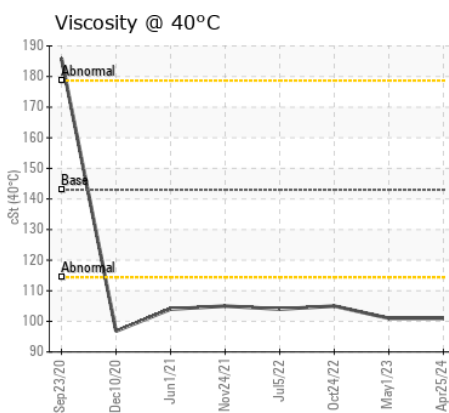
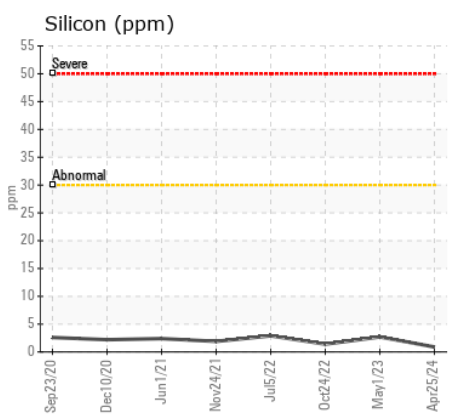
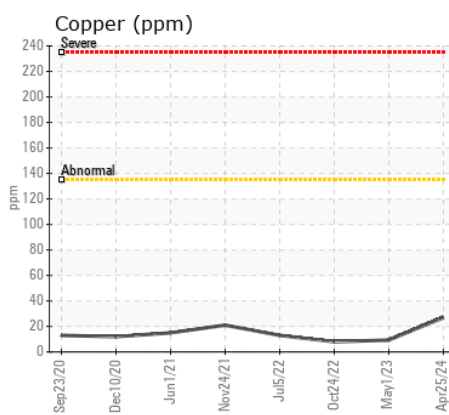
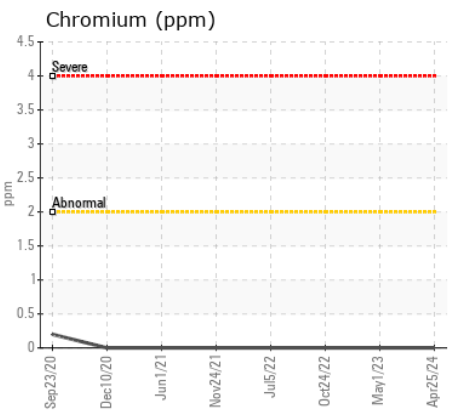
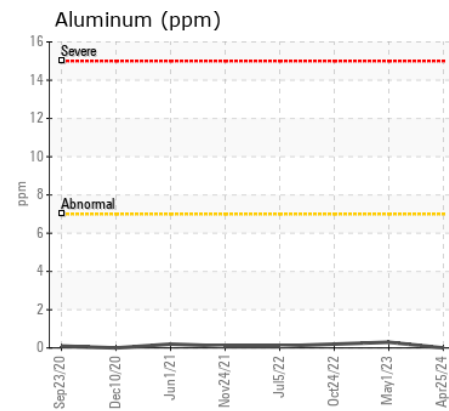
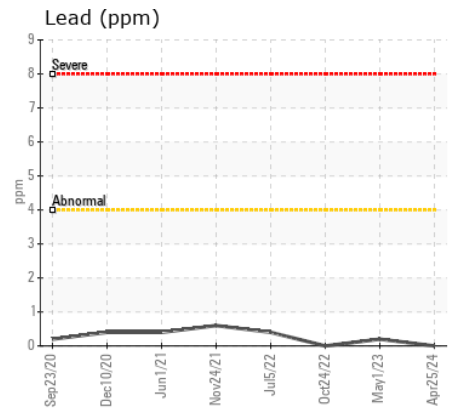
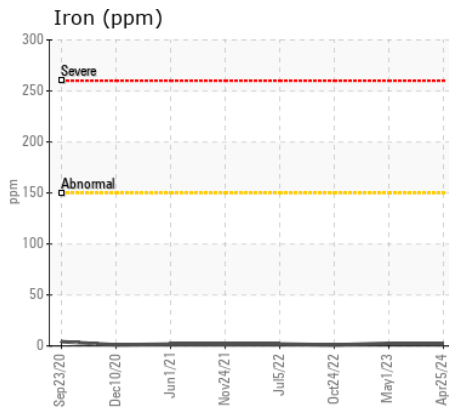
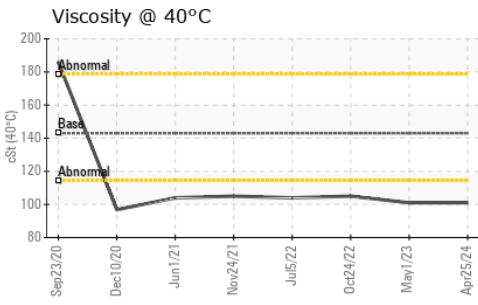
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<1	3	1
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
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	VLITE	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

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

Sodium	ppm	ASTM D5185(m)	>170	<1	<1	<1
Boron	ppm	ASTM D5185(m)	400	306	316	304
Barium	ppm	ASTM D5185(m)	200	<1	0	0
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	0
Magnesium	ppm	ASTM D5185(m)	12	2	2	<1
Calcium	ppm	ASTM D5185(m)	150	8	9	10
Phosphorus	ppm	ASTM D5185(m)	1650	1203	1354	1345
Zinc	ppm	ASTM D5185(m)	125	24	15	14
Sulfur	ppm	ASTM D5185(m)	22500	20418	21553	22060
Visc @ 40°C	cSt	ASTM D7279(m)	143	101	101	105



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289492
Lab Number : 02631742
Unique Number : 5772895
Test Package : MOB 1

LONDON SALVAGE & TRADING LTD.
 333 EGERTON ST
 LONDON, ON
 CA N5Z 2H3
 Contact: SERVICE MANAGER
 terry@londonsalvage.com
 T: (519)451-0680
 F: (519)659-3576

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.