



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(347674)
Machine Id
LIEBHERR L586 062473-1761
Component
Rear Differential
Fluid
LIEBHERR GEAR BASIC 90 LS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0198089	LH0260437	LH0246857
Sample Date		Client Info		07 May 2024	04 Aug 2023	06 Feb 2023
Machine Age	hrs	Client Info		4019	2963	2313
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		None	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1500	53	34	626
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	6
Nickel	ppm	ASTM D5185(m)	>4	<1	<1	3
Titanium	ppm	ASTM D5185(m)	>5	0	0	<1
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	4
Lead	ppm	ASTM D5185(m)	>5	<1	1	▲ 7
Copper	ppm	ASTM D5185(m)	>200	45	52	▲ 265
Tin	ppm	ASTM D5185(m)	>10	2	1	▲ 16
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

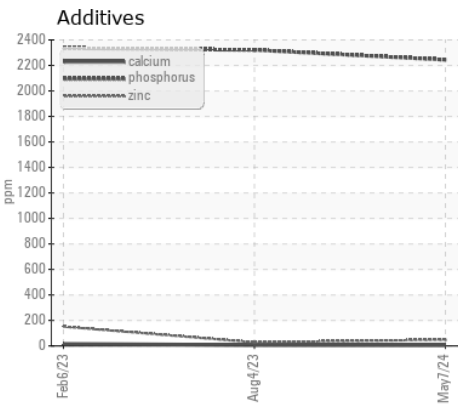
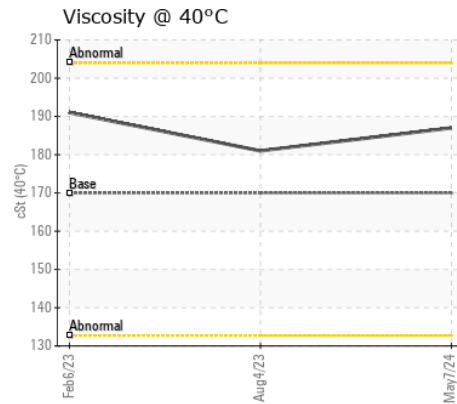
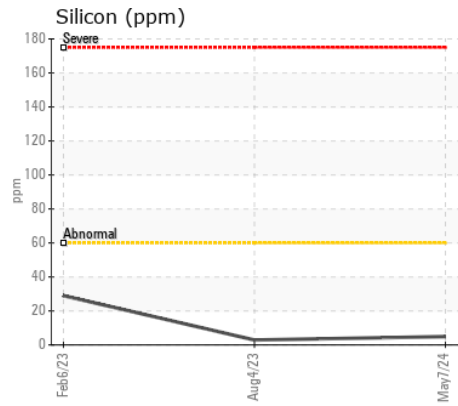
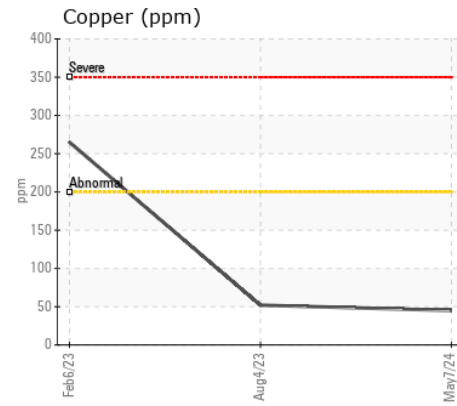
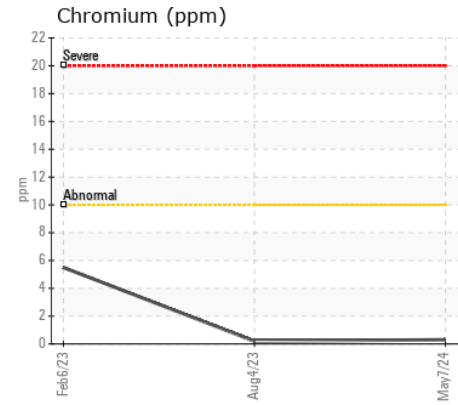
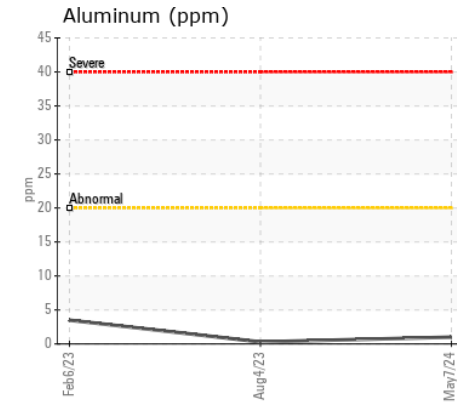
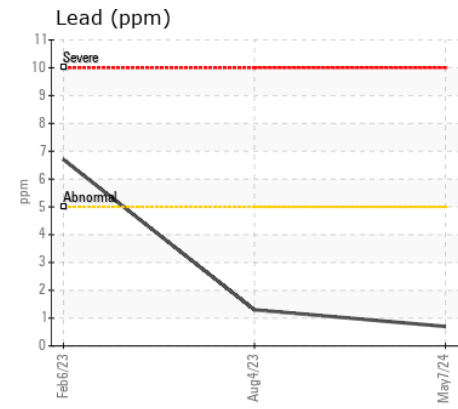
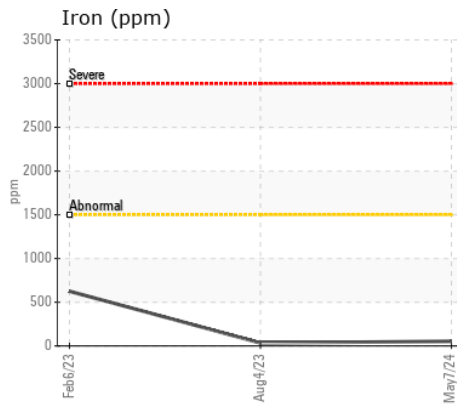
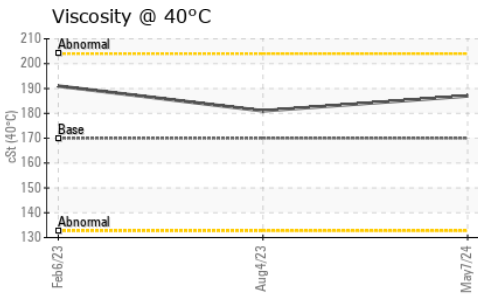
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>60	5	3	29
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	VLITE	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*	>.2	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		1	<1	11
Boron	ppm	ASTM D5185(m)	0	2	3	4
Barium	ppm	ASTM D5185(m)	0	0	0	0
Molybdenum	ppm	ASTM D5185(m)	0	0	0	<1
Manganese	ppm	ASTM D5185(m)	0	5	5	69
Magnesium	ppm	ASTM D5185(m)	<1	<1	<1	2
Calcium	ppm	ASTM D5185(m)	<1	5	8	17
Phosphorus	ppm	ASTM D5185(m)	2143	2244	2321	2335
Zinc	ppm	ASTM D5185(m)	<1	49	28	152
Sulfur	ppm	ASTM D5185(m)	23468	24869	25366	26796
Visc @ 40°C	cSt	ASTM D7279(m)	170	187	181	191



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0198089 **Received** : 24 Jun 2024
Lab Number : 02643816 **Tested** : 24 Jun 2024
Unique Number : 5801355 **Diagnosed** : 24 Jun 2024 - Wes Davis
Test Package : MOBCE

POSCHNER CONSTRUCTION LTD.
 5400 72ND STREET
 DELTA, BC
 CA V4K 3N3
 Contact: Service Manager

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:
F: