



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH40C 155775-1527
Component
Left Final Drive
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		LH0289727	LH0270547	---
Sample Date		Client Info		13 May 2024	27 Feb 2024	---
Machine Age	hrs	Client Info		1026	447	---
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				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>500	92	79	---
Chromium	ppm	ASTM D5185(m)	>10	2	2	---
Nickel	ppm	ASTM D5185(m)	>10	<1	<1	---
Titanium	ppm	ASTM D5185(m)		<1	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>25	6	1	---
Lead	ppm	ASTM D5185(m)	>25	0	<1	---
Copper	ppm	ASTM D5185(m)	>50	<1	4	---
Tin	ppm	ASTM D5185(m)	>10	<1	<1	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

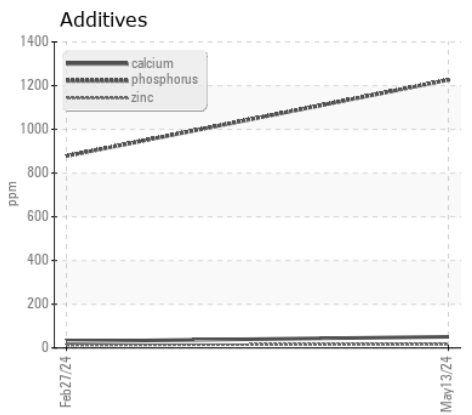
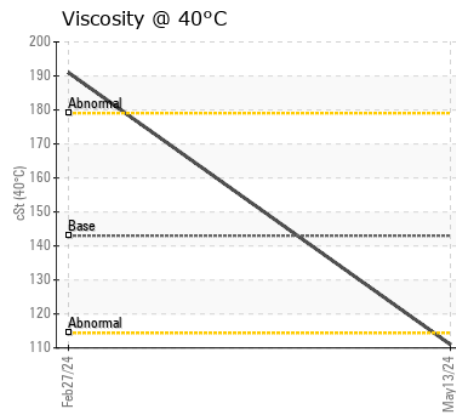
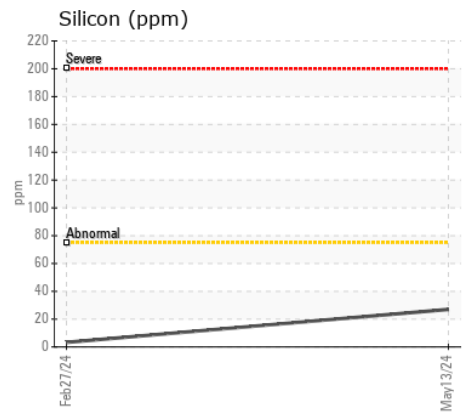
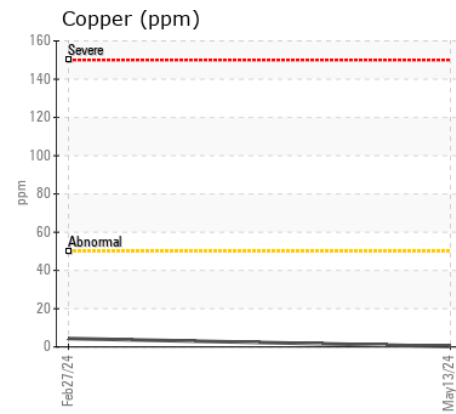
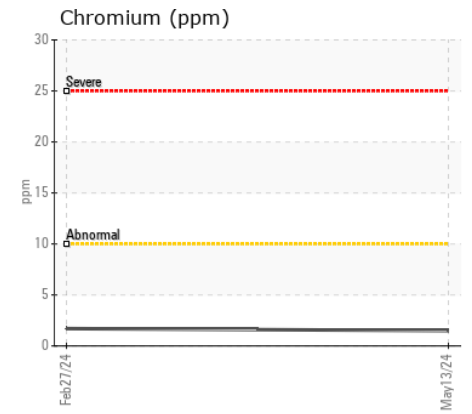
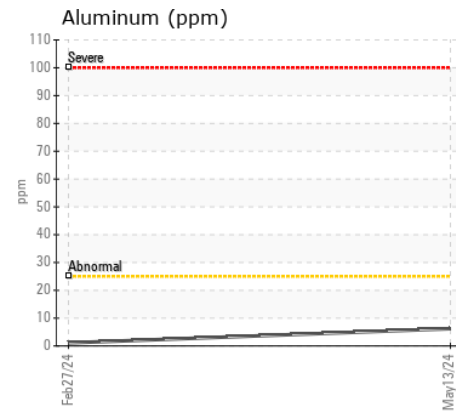
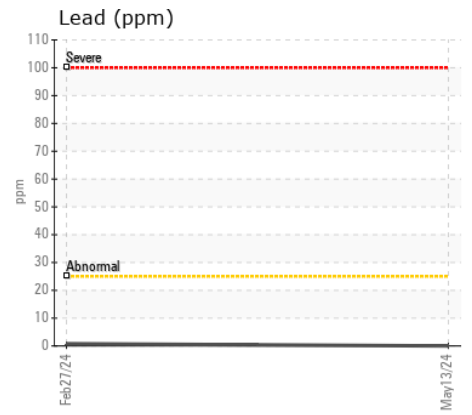
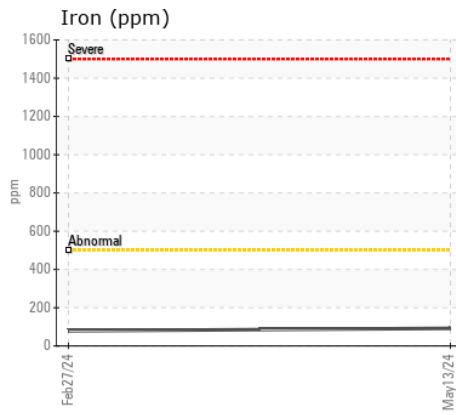
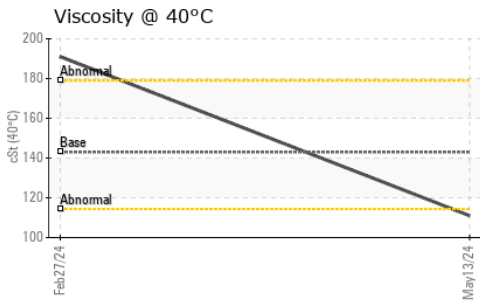
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>75	27	3	---
Potassium	ppm	ASTM D5185(m)	>20	3	<1	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)	>170	3	6	---
Boron	ppm	ASTM D5185(m)	400	239	1	---
Barium	ppm	ASTM D5185(m)	200	5	18	---
Molybdenum	ppm	ASTM D5185(m)	12	0	0	---
Manganese	ppm	ASTM D5185(m)		1	<1	---
Magnesium	ppm	ASTM D5185(m)	12	16	2	---
Calcium	ppm	ASTM D5185(m)	150	51	30	---
Phosphorus	ppm	ASTM D5185(m)	1650	1226	878	---
Zinc	ppm	ASTM D5185(m)	125	17	13	---
Sulfur	ppm	ASTM D5185(m)	22500	22366	19701	---
Visc @ 40°C	cSt	ASTM D7279(m)	143	111	191	---



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9

Sample No. : LH0289727

Lab Number : 02635375

Unique Number : 5776528

Test Package : MOB 1

Received : 14 May 2024

Tested : 14 May 2024

Diagnosed : 14 May 2024 - Wes Davis

BEN-MET STEEL & METAL INC.

415 ELIZABETH STREET

GUELPH, ON

CA N1E 2Y2

Contact: Andy Sakool

asakool@benmetsteel.com

T: (519)763-1209

F: (519)763-9174

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.