



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(362878)
Machine Id
LIEBHERR LH80M 135287-1218
Component
Swing Drive
Fluid
GEAR OIL SAE 75W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0276241	LH0284939	LH0277414
Sample Date		Client Info		07 May 2024	08 Feb 2024	23 Oct 2023
Machine Age	hrs	Client Info		11139	10128	8967
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)	>350	33	77	99
Chromium	ppm	ASTM D5185(m)	>15	0	<1	1
Nickel	ppm	ASTM D5185(m)	>5	0	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>5	0	<1	0
Lead	ppm	ASTM D5185(m)	>10	0	<1	<1
Copper	ppm	ASTM D5185(m)	>300	23	22	33
Tin	ppm	ASTM D5185(m)	>15	0	0	<1
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

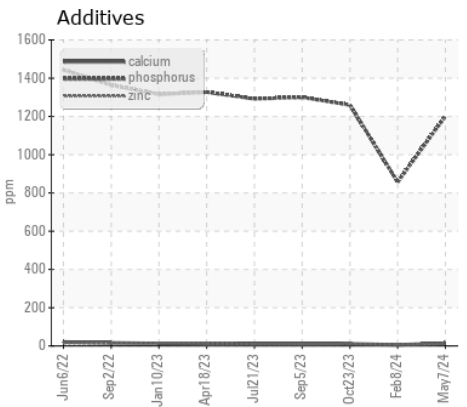
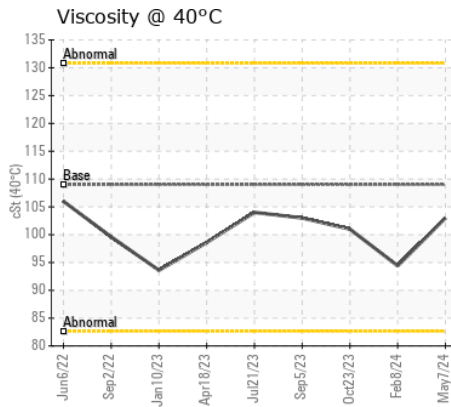
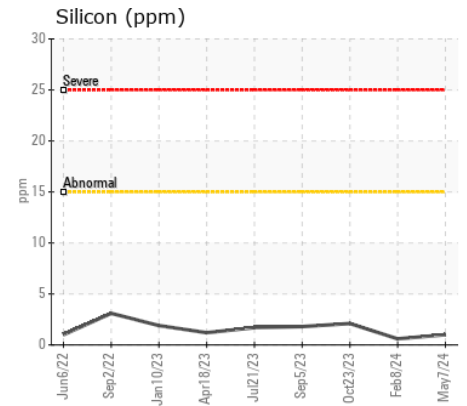
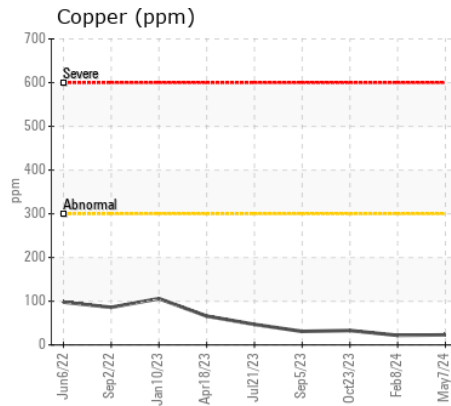
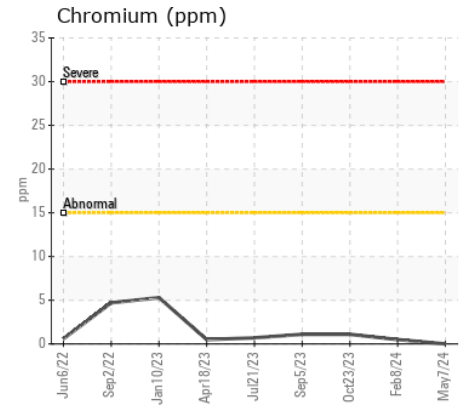
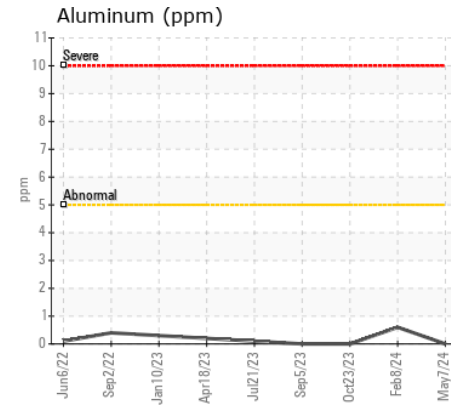
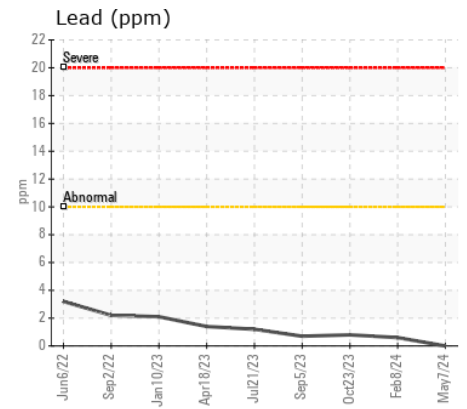
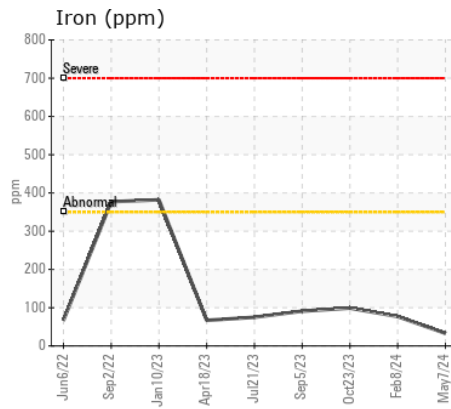
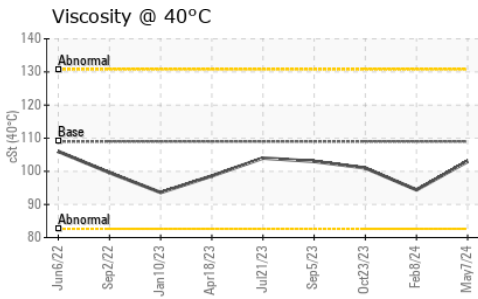
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>15	1	<1	2
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	0
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	VLITE
Debris	scalar	Visual*	NONE	NONE	VLITE	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

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<1	<1	<1
Boron	ppm	ASTM D5185(m)	400	299	96	322
Barium	ppm	ASTM D5185(m)	200	0	0	0
Molybdenum	ppm	ASTM D5185(m)	12	0	0	0
Manganese	ppm	ASTM D5185(m)		<1	0	<1
Magnesium	ppm	ASTM D5185(m)	12	2	<1	<1
Calcium	ppm	ASTM D5185(m)	150	14	6	11
Phosphorus	ppm	ASTM D5185(m)	1650	1202	857	1260
Zinc	ppm	ASTM D5185(m)	125	11	6	11
Sulfur	ppm	ASTM D5185(m)	22500	21624	20412	21713
Visc @ 40°C	cSt	ASTM D7279(m)	109	103	94.4	101



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0276241 **Received** : 08 May 2024
Lab Number : 02634158 **Tested** : 08 May 2024
Unique Number : 5775311 **Diagnosed** : 08 May 2024 - 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.

GERDAU AMERISTEEL
 1 GERDAU COURT
 WHITBY, ON
 CA L1N 5T1
 Contact: Tyson Young
 tyoung@gerdauameristeel.com
 T: (905)668-8811
 F: (905)668-6469