



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
(358361)
Machine Id
LIEBHERR LH40M 133820-1215
Component
Transmission (Manual)
Fluid
SAE 10W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289648	LH0203064	LH0227575
Sample Date		Client Info		10 Jun 2024	31 Aug 2022	09 Mar 2022
Machine Age	hrs	Client Info		2606	1001	509
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)	>200	18	13	25
Chromium	ppm	ASTM D5185(m)	>5	0	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	0	0	<1
Titanium	ppm	ASTM D5185(m)		0	<1	0
Silver	ppm	ASTM D5185(m)	>7	0	0	0
Aluminum	ppm	ASTM D5185(m)	>25	2	2	3
Lead	ppm	ASTM D5185(m)	>45	0	<1	1
Copper	ppm	ASTM D5185(m)	>225	17	18	26
Tin	ppm	ASTM D5185(m)	>10	0	<1	1
Vanadium	ppm	ASTM D5185(m)		0	<1	<1
White Metal	scalar	Visual*	NONE	NONE	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

CONTAMINATION

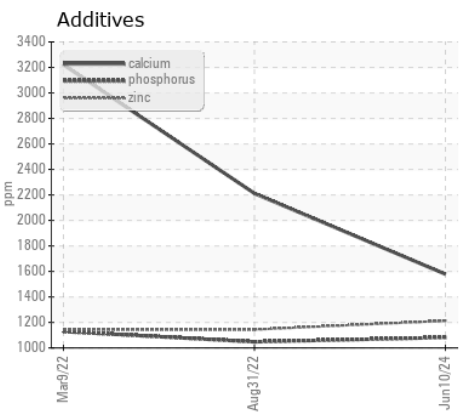
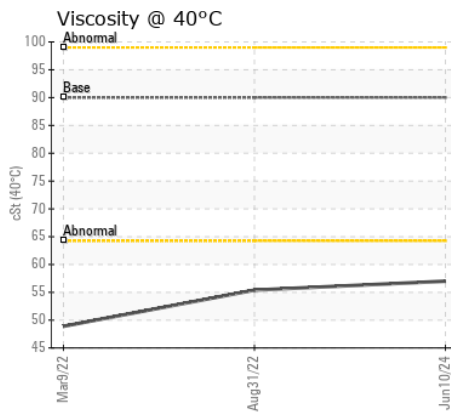
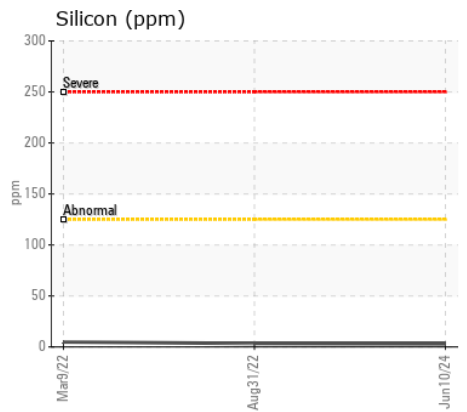
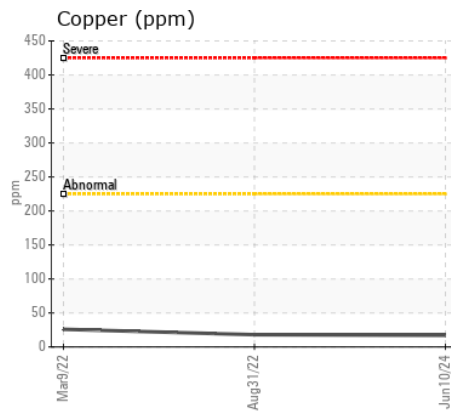
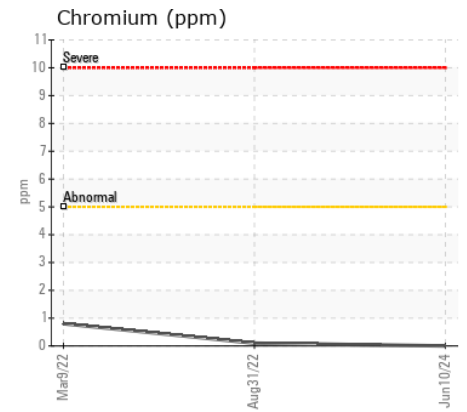
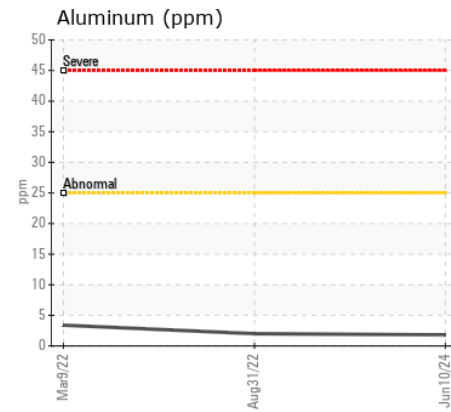
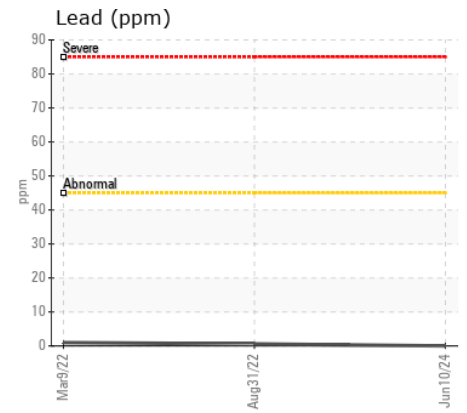
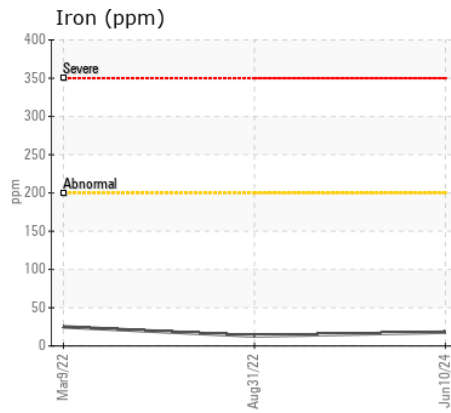
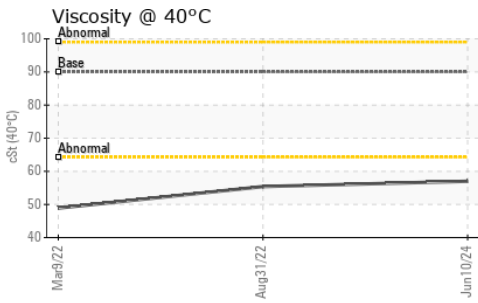
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	3	3	5
Potassium	ppm	ASTM D5185(m)	>20	1	2	4
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>401	11	23	40
Boron	ppm	ASTM D5185(m)		4	6	5
Barium	ppm	ASTM D5185(m)		1	3	6
Molybdenum	ppm	ASTM D5185(m)		50	29	0
Manganese	ppm	ASTM D5185(m)		9	18	44
Magnesium	ppm	ASTM D5185(m)		812	454	8
Calcium	ppm	ASTM D5185(m)		1579	2212	3221
Phosphorus	ppm	ASTM D5185(m)		1082	1048	1129
Zinc	ppm	ASTM D5185(m)		1213	1144	1144
Sulfur	ppm	ASTM D5185(m)		4246	5390	8103
Visc @ 40°C	cSt	ASTM D7279(m)	90.0	57.0	55.4	48.9



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289648 **Received** : 11 Jun 2024
Lab Number : 02641219 **Tested** : 11 Jun 2024
Unique Number : 5798758 **Diagnosed** : 11 Jun 2024 - Wes Davis
Test Package : MOB 1

METALOGICS INC.
 895 COLLINSON RD.
 DUNDAS, ON
 CA L9H 5E2
 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.

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F: