



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[KIMMEL]
Machine Id
LIEBHERR LH50M 1216-117615
Component
Transmission
Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

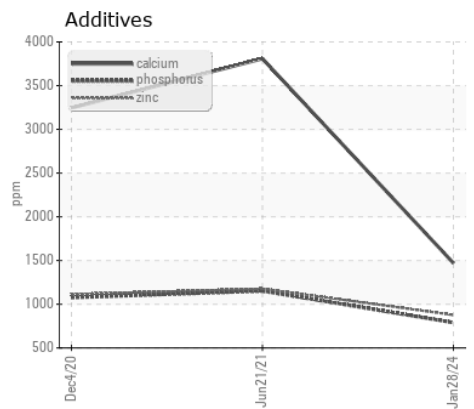
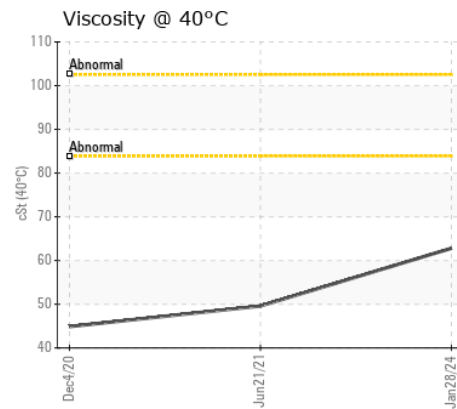
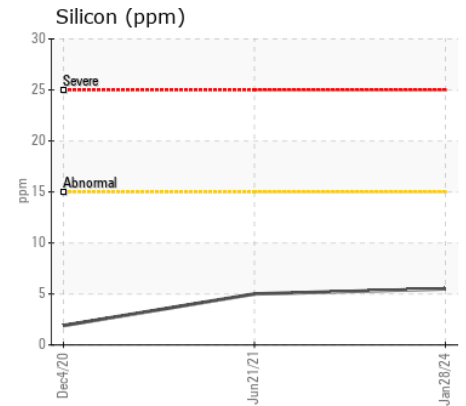
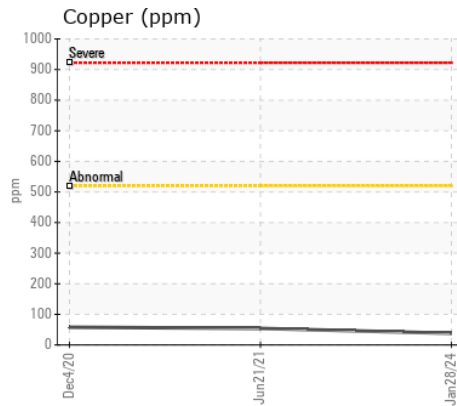
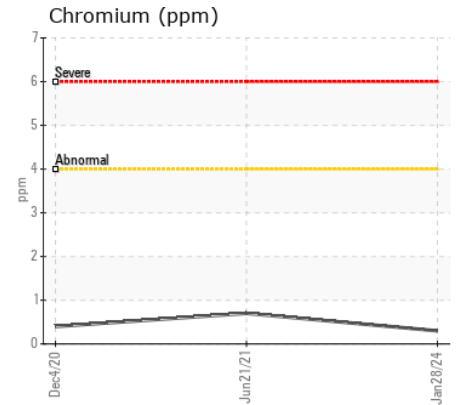
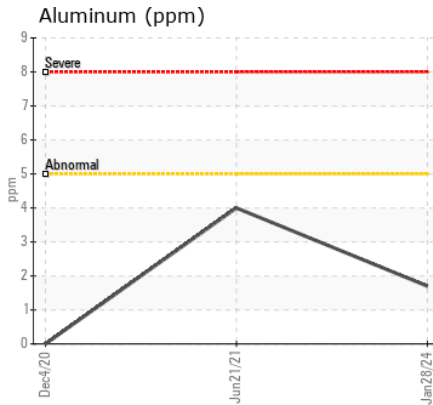
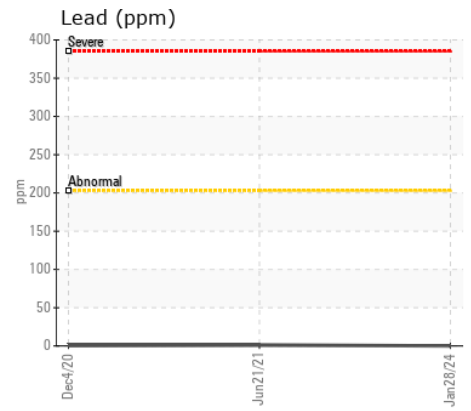
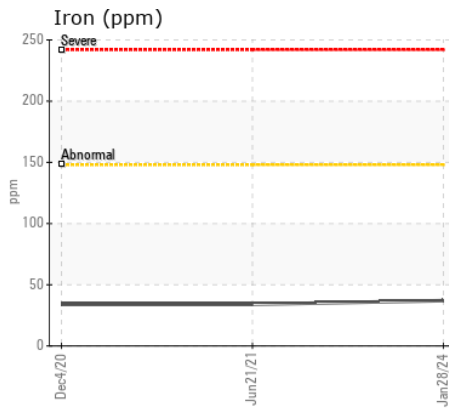
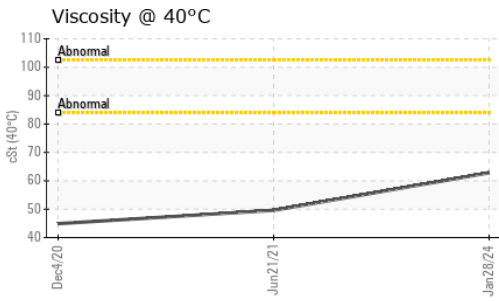
CONTAMINATION

There is no indication of any contamination in the fluid.

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH06073407	LHMC165186	LHMC131810
Sample Date		Client Info		28 Jan 2024	21 Jun 2021	04 Dec 2020
Machine Age	hrs	Client Info		1216	3193	2028
Oil Age	hrs	Client Info		0	0	860
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Changed
Filter Changed		Client Info		N/A	N/A	Changed
Sample Status				NORMAL	ABNORMAL	NORMAL
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Iron	ppm	ASTM D5185m	>148	37	34	34
Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>5	2	4	0
Lead	ppm	ASTM D5185m	>203	0	1	<1
Copper	ppm	ASTM D5185m	>520	38	54	58
Tin	ppm	ASTM D5185m	>7	2	3	1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
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Silicon	ppm	ASTM D5185m	>15	6	5	2
Potassium	ppm	ASTM D5185m	>20	3	8	10
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	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	>0.1	NEG	NEG	NEG
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Sodium	ppm	ASTM D5185m		4	23	37
Boron	ppm	ASTM D5185m		171	173	11
Barium	ppm	ASTM D5185m		<1	0	<1
Molybdenum	ppm	ASTM D5185m		28	<1	<1
Manganese	ppm	ASTM D5185m		21	22	23
Magnesium	ppm	ASTM D5185m		706	18	8
Calcium	ppm	ASTM D5185m		1471	3809	3246
Phosphorus	ppm	ASTM D5185m		790	1152	1076
Zinc	ppm	ASTM D5185m		877	1177	1113
Sulfur	ppm	ASTM D5185m		4099	8185	8391
Visc @ 40°C	cSt	ASTM D445		62.8	49.6	44.9



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LH06073407 **Received** : 29 Jan 2024
Lab Number : 06073407 **Diagnosed** : 31 Jan 2024
Unique Number : 10850084 **Diagnostician** : Don Baldrige
Test Package : MOBCE

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 10461 GRAND RIVER RD
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 US 48116
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 MVISEL@RECOEQUIP.COM
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 F:

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)