



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
LIEBHERR LH30M 112545-1253
Component
Transmission (Manual)
Fluid
{not provided} (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample.

WEAR

All component wear rates are normal.

CONTAMINATION

Free water present.

FLUID CONDITION

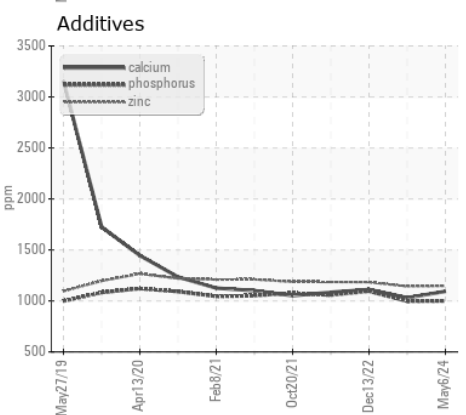
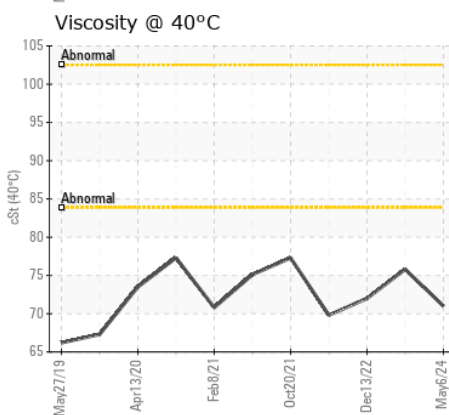
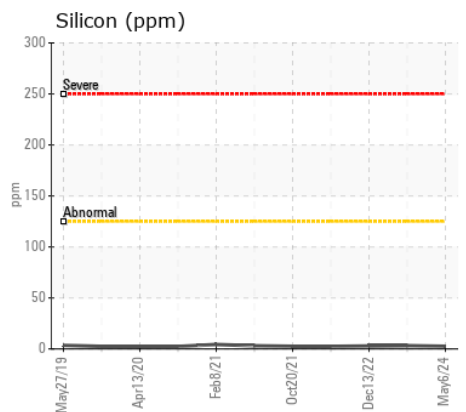
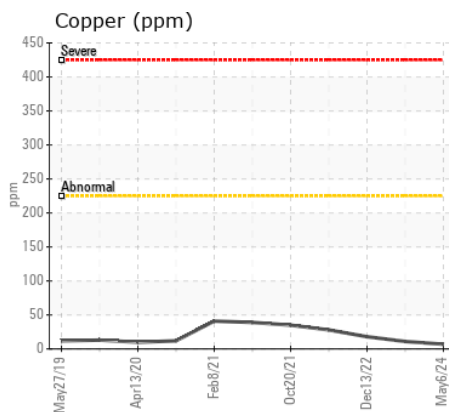
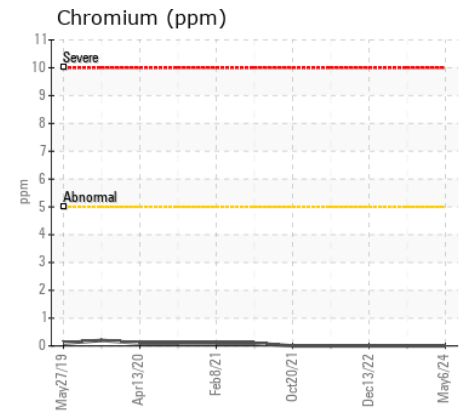
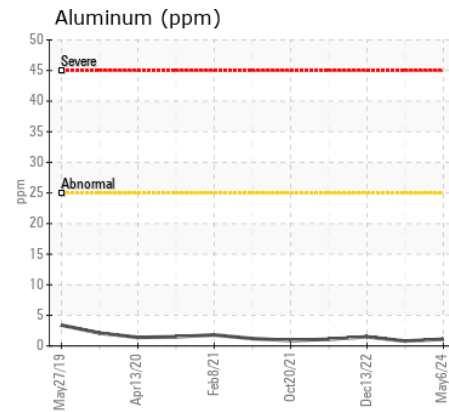
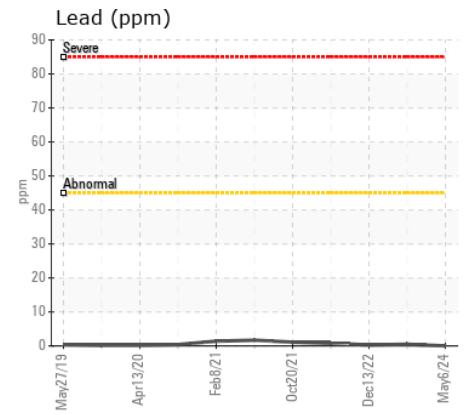
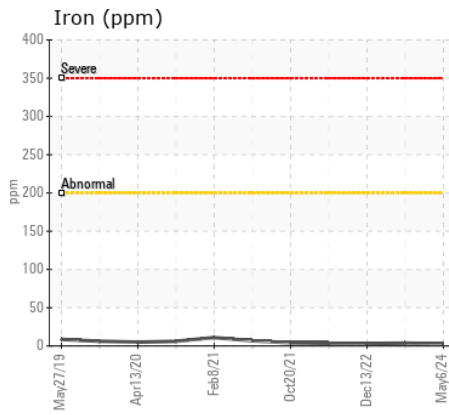
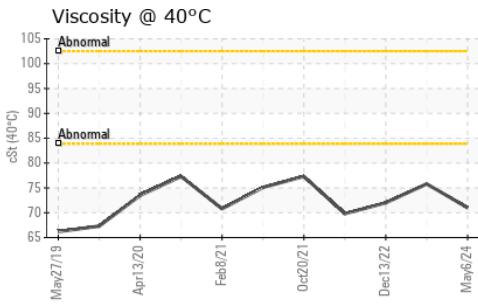
The fluid is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0289578	LH0270126	LH0247423
Sample Date		Client Info		06 May 2024	27 Sep 2023	13 Dec 2022
Machine Age	hrs	Client Info		15168	1297	10473
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		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>200	3	4	3
Chromium	ppm	ASTM D5185(m)	>5	0	0	0
Nickel	ppm	ASTM D5185(m)	>5	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)	>7	0	<1	<1
Aluminum	ppm	ASTM D5185(m)	>25	1	<1	2
Lead	ppm	ASTM D5185(m)	>45	0	<1	<1
Copper	ppm	ASTM D5185(m)	>225	7	11	18
Tin	ppm	ASTM D5185(m)	>10	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

Silicon	ppm	ASTM D5185(m)	>125	3	3	3
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
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	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	▲ WGOIL	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	NEG

Sodium	ppm	ASTM D5185(m)		1	2	2
Boron	ppm	ASTM D5185(m)		6	7	5
Barium	ppm	ASTM D5185(m)		0	<1	0
Molybdenum	ppm	ASTM D5185(m)		58	59	59
Manganese	ppm	ASTM D5185(m)		1	<1	2
Magnesium	ppm	ASTM D5185(m)		961	946	956
Calcium	ppm	ASTM D5185(m)		1094	1031	1112
Phosphorus	ppm	ASTM D5185(m)		999	997	1095
Zinc	ppm	ASTM D5185(m)		1147	1143	1184
Sulfur	ppm	ASTM D5185(m)		2965	2881	2742
Visc @ 40°C	cSt	ASTM D7279(m)		71.0	75.8	72.0



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH0289578
Lab Number : 02633947
Unique Number : 5775100
Test Package : MOB 1
Received : 07 May 2024
Tested : 07 May 2024
Diagnosed : 07 May 2024 - Kevin Marson

GREEN METALS CANADA
 224 BEARDS LANE
 WOODSTOCK, ON
 CA N4S 7W3
 Contact: Jamie Depotie
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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.