



LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	ABNORMAL



Area
(336343)
Machine Id
LIEBHERR LH50M 124905-1216
Component
Rear Left Wheel Hub
Fluid
MOBIL 75W90 (--- GAL)

RECOMMENDATION

Confirm the source of the lubricant being utilized for top-up/fill.
Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

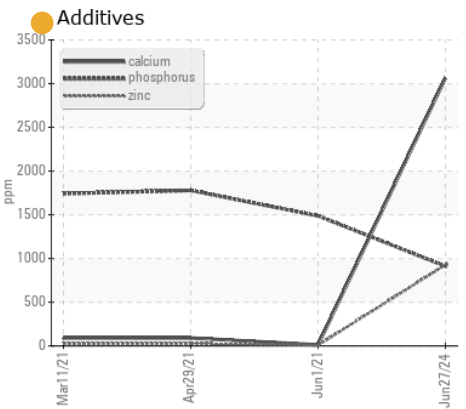
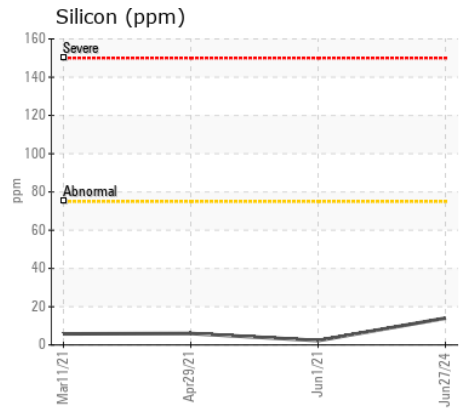
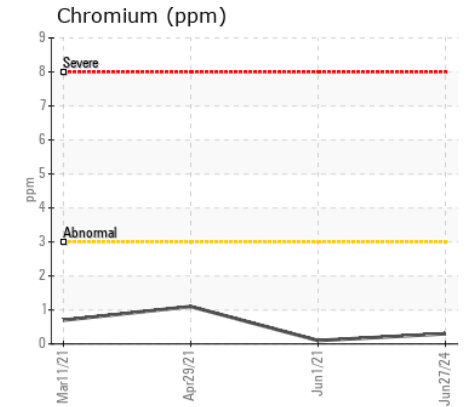
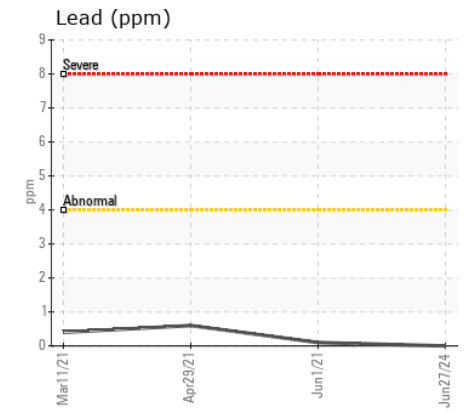
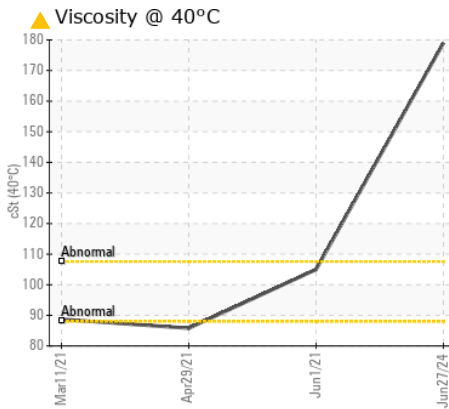
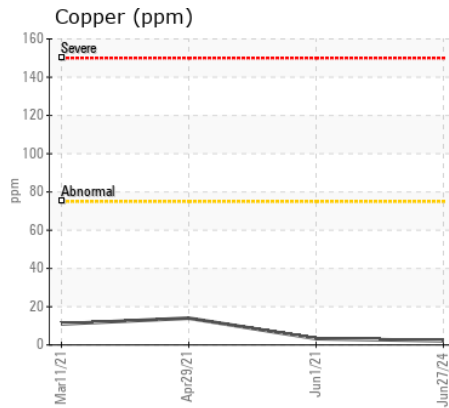
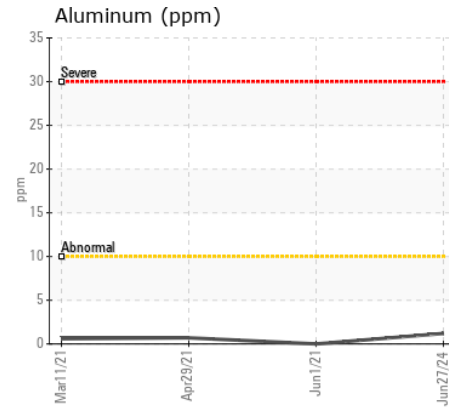
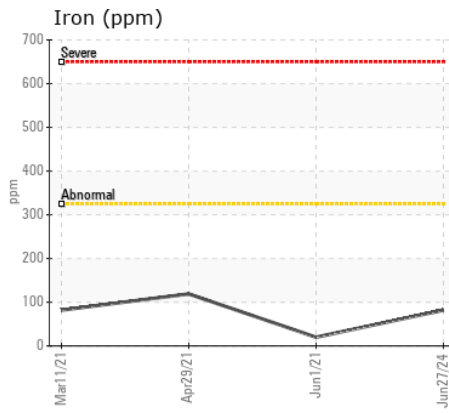
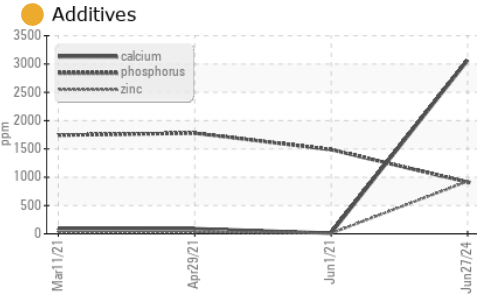
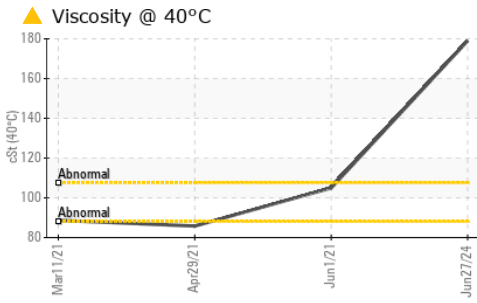
Viscosity of sample indicates oil is within SAE 50 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LH0290551	LH0182510	LH0182496
Sample Date		Client Info		27 Jun 2024	01 Jun 2021	29 Apr 2021
Machine Age	hrs	Client Info		22074	4702	4100
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				ABNORMAL	NORMAL	NORMAL

Iron	ppm	ASTM D5185(m)	>325	82	20	119
Chromium	ppm	ASTM D5185(m)	>3	<1	<1	1
Nickel	ppm	ASTM D5185(m)	>2	<1	<1	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	<1
Aluminum	ppm	ASTM D5185(m)	>10	1	0	<1
Lead	ppm	ASTM D5185(m)	>4	0	<1	<1
Copper	ppm	ASTM D5185(m)	>75	2	3	14
Tin	ppm	ASTM D5185(m)	>3	0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	<1
White Metal	scalar	Visual*	NONE	LIGHT	VLITE	VLITE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185(m)	>75	14	2	6
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	LIGHT	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

Sodium	ppm	ASTM D5185(m)		<1	2	6
Boron	ppm	ASTM D5185(m)		35	255	6
Barium	ppm	ASTM D5185(m)		<1	0	<1
Molybdenum	ppm	ASTM D5185(m)		<1	0	<1
Manganese	ppm	ASTM D5185(m)		<1	<1	2
Magnesium	ppm	ASTM D5185(m)		11	1	<1
Calcium	ppm	ASTM D5185(m)		3064	12	91
Phosphorus	ppm	ASTM D5185(m)		912	1487	1779
Zinc	ppm	ASTM D5185(m)		927	7	27
Sulfur	ppm	ASTM D5185(m)		10690	23738	30525
Visc @ 40°C	cSt	ASTM D7279(m)		179	105	85.8



ISO 17025:2017
Accredited
Laboratory

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

Sample No. : LH0290551

Lab Number : 02645554

Unique Number : 5803093

Test Package : MOB 1

Received : 04 Jul 2024

Tested : 04 Jul 2024

Diagnosed : 05 Jul 2024 - Kevin Marson

CANFOR
101-161 E 4TH AVE
VANCOUVER, BC
CA V5T 3C1
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.

T:

F: