MOB I

LIEBHERR

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
(361220)
Machine Id
LIEBHERR LH50M 134706-1216
Component
Rear Right Wheel Hub
Fluid
GEAR OIL SAE 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

WEAR

All component wear rates are normal.

CONTAMINATION

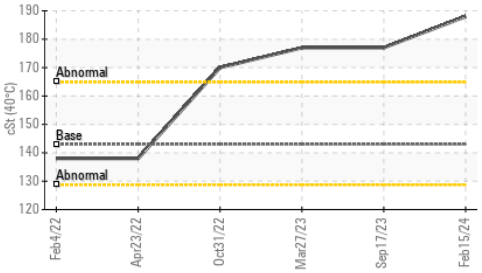
There is no indication of any contamination in the oil.

FLUID CONDITION

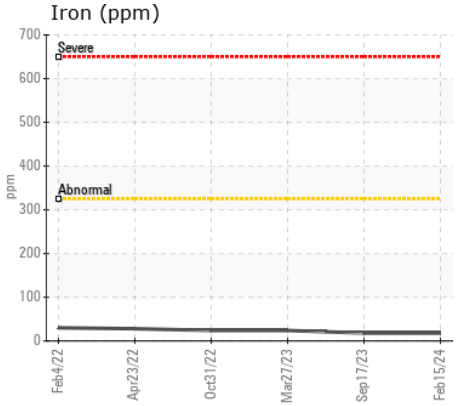
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**LH**	LH	LH0250104
Sample Date		Client Info		**15 Feb 2024**	17 Sep 2023	27 Mar 2023
Machine Age	hrs	Client Info		**5100**	4000	2020
Oil Age	hrs	Client Info		**0**	0	0
Filter Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**Changed**	N/A	N/A
Filter Changed		Client Info		**None**	N/A	N/A
Sample Status				**NORMAL**	NORMAL	NORMAL
Iron	ppm	ASTM D5185(m)	>325	**18**	18	24
Chromium	ppm	ASTM D5185(m)	>3	**0**	0	0
Nickel	ppm	ASTM D5185(m)	>2	**<1**	<1	<1
Titanium	ppm	ASTM D5185(m)		**0**	0	0
Silver	ppm	ASTM D5185(m)		**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Lead	ppm	ASTM D5185(m)	>4	**0**	0	<1
Copper	ppm	ASTM D5185(m)	>75	**1**	2	2
Tin	ppm	ASTM D5185(m)	>3	**0**	0	0
Vanadium	ppm	ASTM D5185(m)		**0**	0	0
White Metal	scalar	Visual*	NONE	**NONE**	NONE	VLITE
Yellow Metal	scalar	Visual*	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>75	**4**	3	3
Potassium	ppm	ASTM D5185(m)	>20	**<1**	<1	0
Water		WC Method	>0.2	**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*	>0.2	**NEG**	NEG	NEG
Sodium	ppm	ASTM D5185(m)	>170	**2**	4	6
Boron	ppm	ASTM D5185(m)	400	**<1**	3	2
Barium	ppm	ASTM D5185(m)	200	**0**	0	0
Molybdenum	ppm	ASTM D5185(m)	12	**0**	0	0
Manganese	ppm	ASTM D5185(m)		**0**	<1	<1
Magnesium	ppm	ASTM D5185(m)	12	**2**	<1	<1
Calcium	ppm	ASTM D5185(m)	150	**9**	22	40
Phosphorus	ppm	ASTM D5185(m)	1650	**2289**	2419	2510
Zinc	ppm	ASTM D5185(m)	125	**7**	12	14
Sulfur	ppm	ASTM D5185(m)	22500	**24871**	27112	32987
Visc @ 40°C	cSt	ASTM D7279(m)	143	**188**	177	177

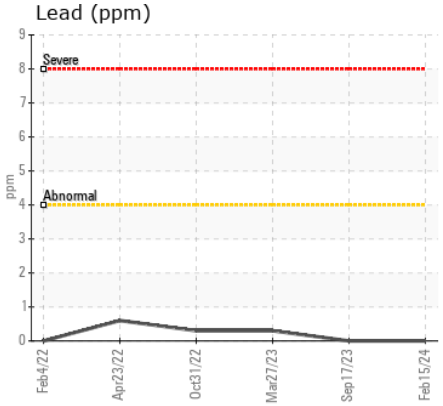
Viscosity @ 40°C



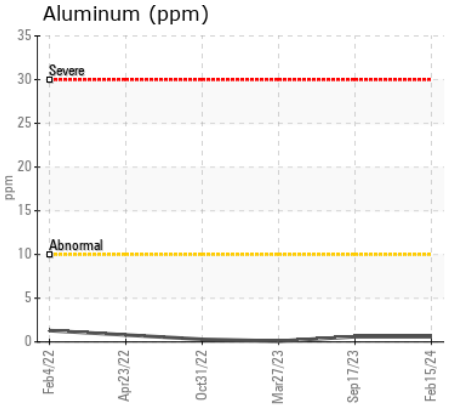
Iron (ppm)



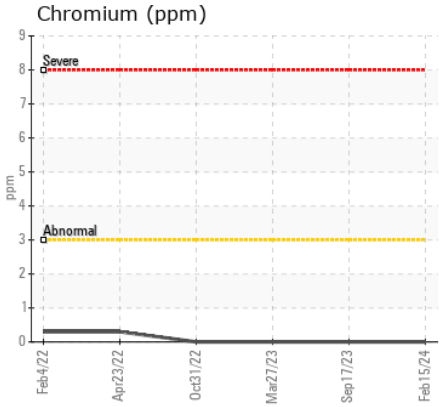
Lead (ppm)



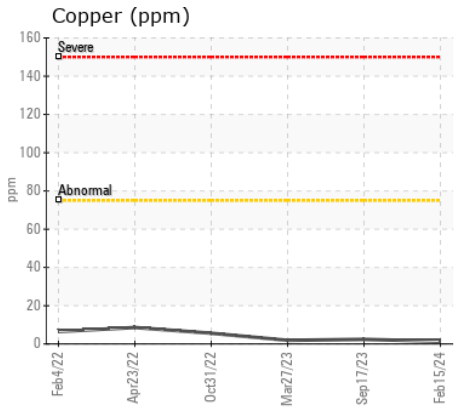
Aluminum (ppm)



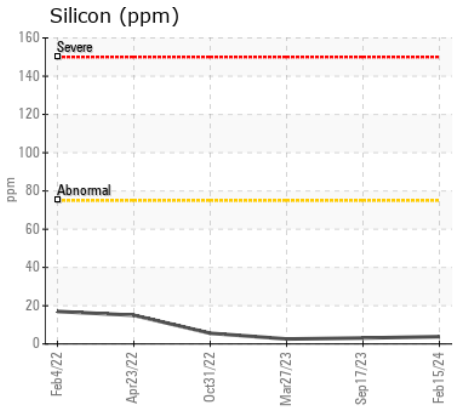
Chromium (ppm)



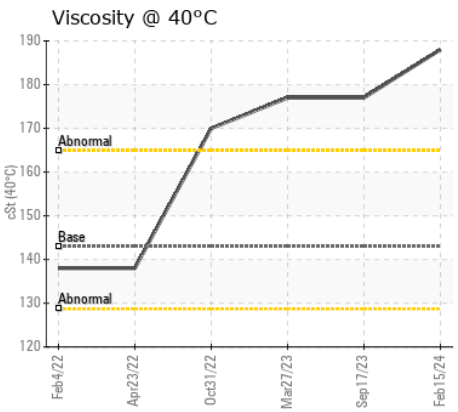
Copper (ppm)



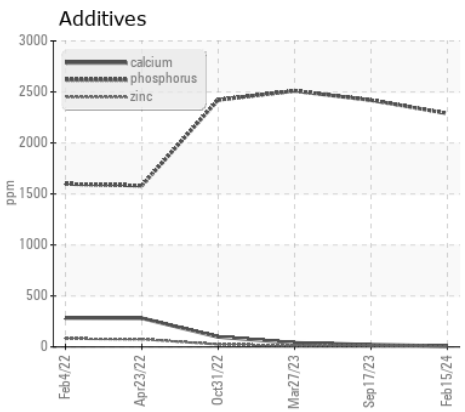
Silicon (ppm)



Viscosity @ 40°C



Additives



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : LH
Lab Number : 02616762
Unique Number : 5733872
Test Package : MOB 1

Received : 20 Feb 2024
Tested : 20 Feb 2024
Diagnosed : 20 Feb 2024 - Wes Davis

Industrial Metals
550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager

T:
F:

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.