



# LIEBHERR

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>ATTENTION</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**(362878)**  
Machine Id  
**LIEBHERR LH80M 135287-1218**  
Component  
**Splitter Box**  
Fluid  
**GEAR OIL SAE 75W90 (5 LTR)**

### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0274823</b>	LH0284938	LH0277418
Sample Date		Client Info		<b>04 Mar 2024</b>	08 Feb 2024	23 Oct 2023
Machine Age	hrs	Client Info		<b>10640</b>	10128	8967
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	None	None
Sample Status				<b>ATTENTION</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>15</b>	21	15
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	<1
Copper	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

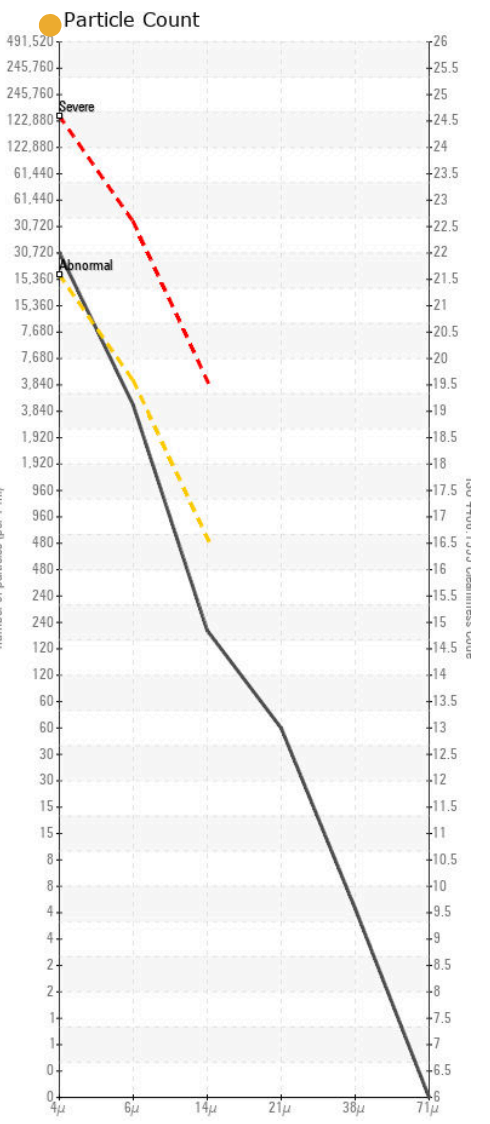
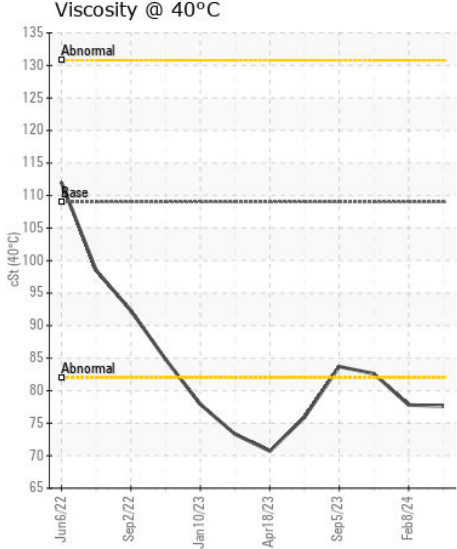
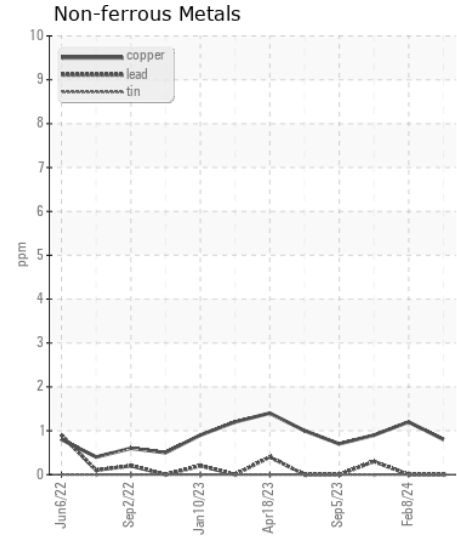
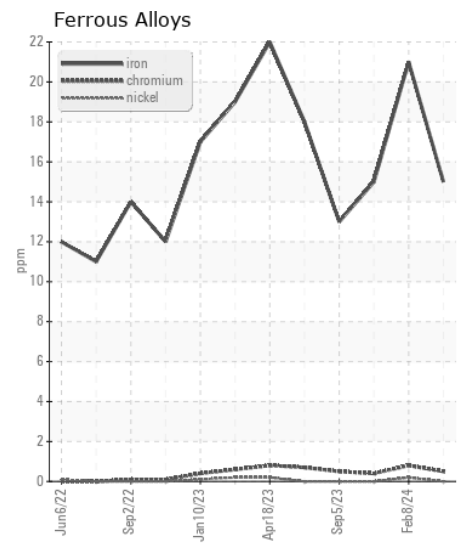
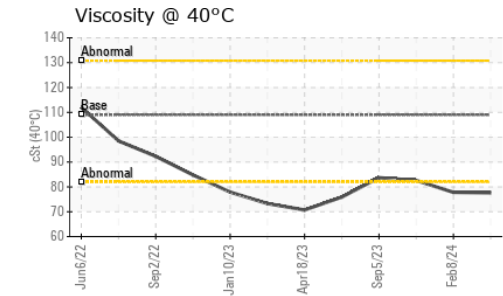
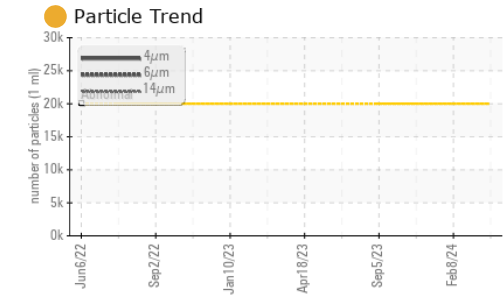
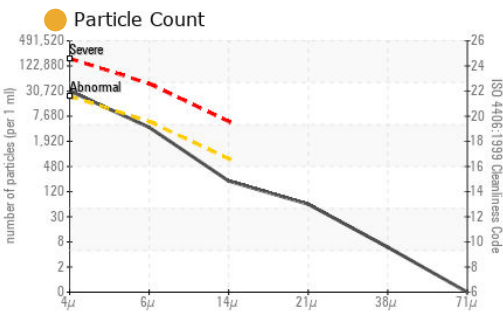
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	4	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	1	<1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>20000	<b>26833</b>	---	---
Particles >6µm		ASTM D7647	>5000	<b>3628</b>	---	---
Particles >14µm		ASTM D7647	>640	<b>190</b>	---	---
Particles >21µm		ASTM D7647	>160	<b>53</b>	---	---
Particles >38µm		ASTM D7647	>40	<b>5</b>	---	---
Particles >71µm		ASTM D7647	>10	<b>0</b>	---	---
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>22/19/15</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	VLITE
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	2	1
Boron	ppm	ASTM D5185(m)	400	<b>222</b>	220	270
Barium	ppm	ASTM D5185(m)	200	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	12	<b>2</b>	2	1
Calcium	ppm	ASTM D5185(m)	150	<b>61</b>	73	56
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1037</b>	1043	1154
Zinc	ppm	ASTM D5185(m)	125	<b>176</b>	159	112
Sulfur	ppm	ASTM D5185(m)	22500	<b>15526</b>	15857	18025
Visc @ 40°C	cSt	ASTM D7279(m)	109	<b>77.6</b>	77.8	82.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0274823 **Received** : 05 Mar 2024  
**Lab Number** : 02619958 **Tested** : 06 Mar 2024  
**Unique Number** : 5737068 **Diagnosed** : 06 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

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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.