



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR LH50M 1216-98210**  
Component  
**Splitter Box**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0290694</b>	LHMC103140	LHMC103336
Sample Date		Client Info		<b>27 May 2024</b>	16 May 2019	19 Oct 2018
Machine Age	hrs	Client Info		<b>1000</b>	3524	1875
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>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>None</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>55</b>	24	25
Chromium	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185(m)	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185(m)	>20	<b>4</b>	<1	6
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	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

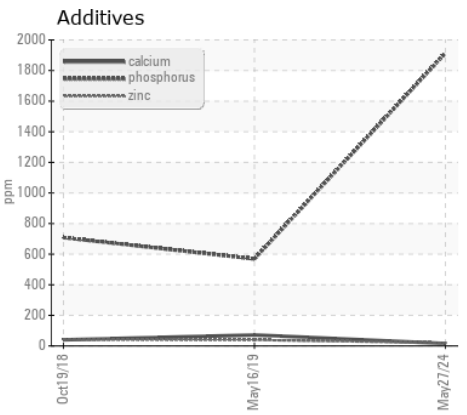
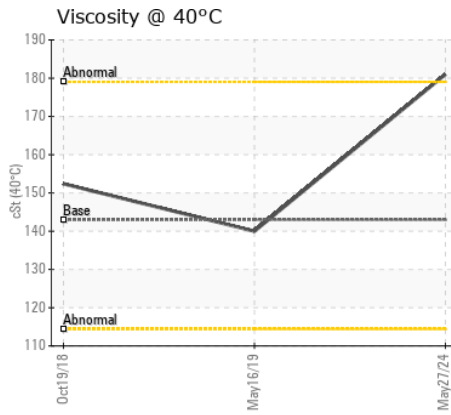
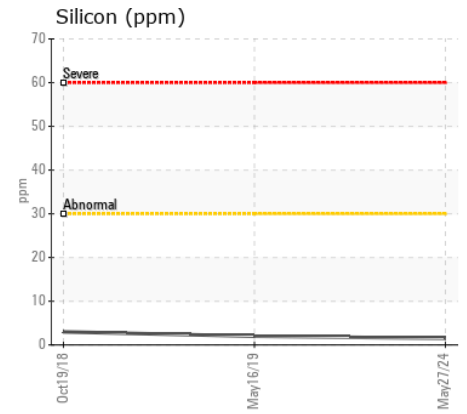
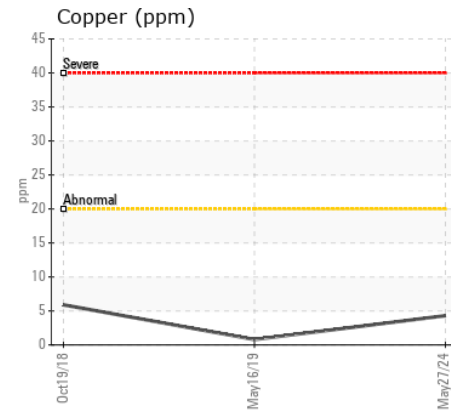
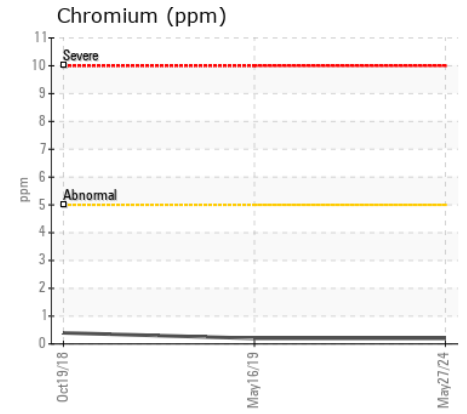
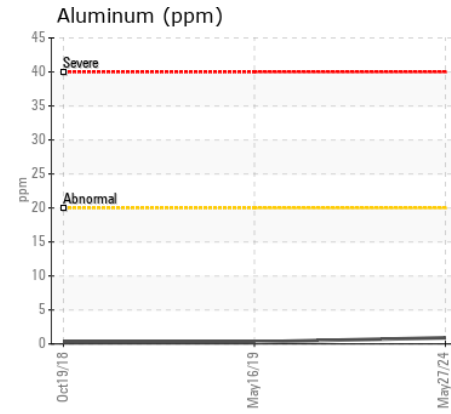
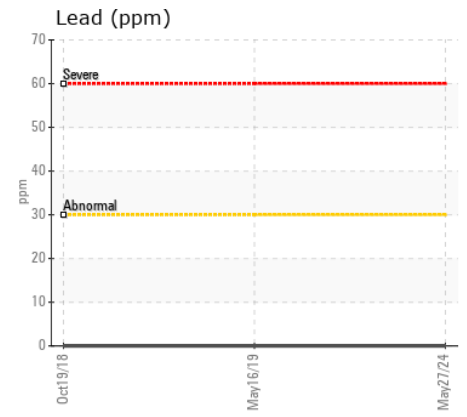
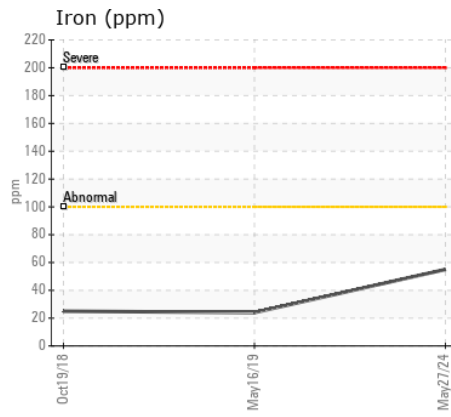
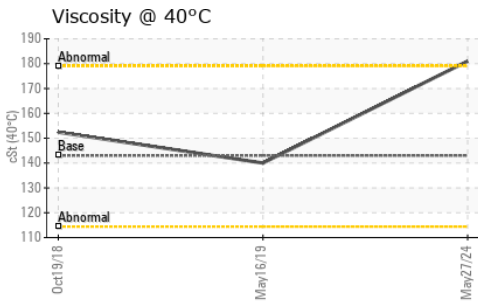
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>30	<b>2</b>	2	3
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	1
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>VLITE</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)	>170	<b>2</b>	2	3
Boron	ppm	ASTM D5185(m)	400	<b>2</b>	3	5
Barium	ppm	ASTM D5185(m)	200	<b>&lt;1</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	12	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185(m)		<b>2</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	12	<b>2</b>	8	1
Calcium	ppm	ASTM D5185(m)	150	<b>16</b>	72	40
Phosphorus	ppm	ASTM D5185(m)	1650	<b>1914</b>	569	708
Zinc	ppm	ASTM D5185(m)	125	<b>20</b>	39	42
Sulfur	ppm	ASTM D5185(m)	22500	<b>24963</b>	16778	17508
Visc @ 40°C	cSt	ASTM D7279(m)	143	<b>181</b>	140	152.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0290694  
**Lab Number** : 02639687  
**Unique Number** : 5788849  
**Test Package** : MOB 1  
**Received** : 04 Jun 2024  
**Tested** : 05 Jun 2024  
**Diagnosed** : 05 Jun 2024 - Wes Davis

**SIMS BROTHERS**  
 1011 S. PROSPECT ST  
 MARION, OH  
 US 43302  
 Contact: BOB LANCE

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.

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