



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L566 045906-1484**  
Component  
**Front Axle**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0287997</b>	LH0250543	LH0238599
Sample Date		Client Info		<b>26 Mar 2024</b>	12 Sep 2023	01 Mar 2023
Machine Age	hrs	Client Info		<b>15268</b>	14240	13207
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>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>1100	<b>27</b>	20	24
Chromium	ppm	ASTM D5185(m)	>15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>4	<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)	>5	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>4	<b>0</b>	<1	0
Copper	ppm	ASTM D5185(m)	>30	<b>5</b>	5	4
Tin	ppm	ASTM D5185(m)	>4	<b>0</b>	0	<1
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

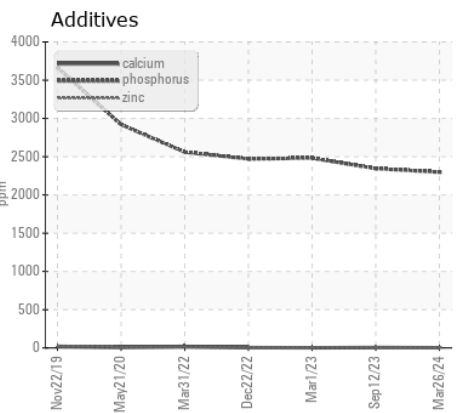
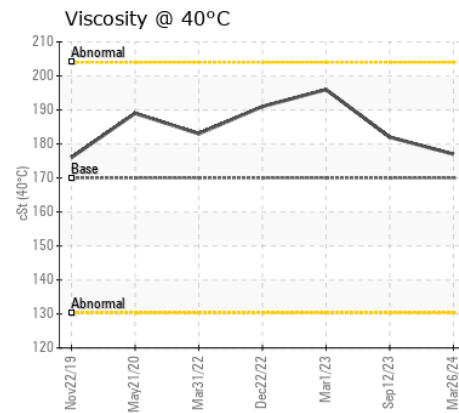
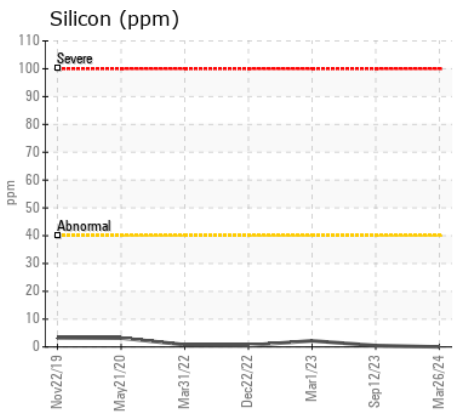
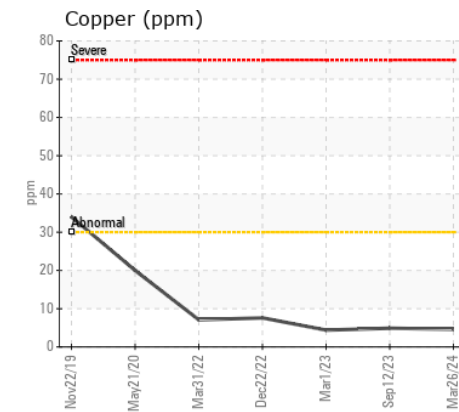
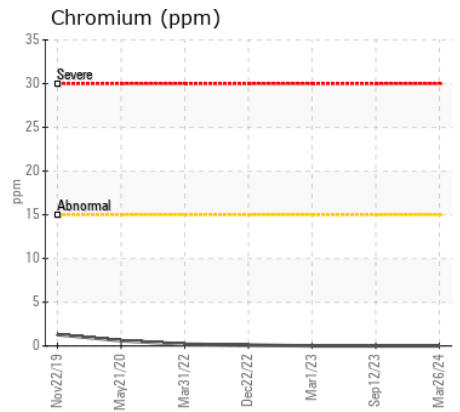
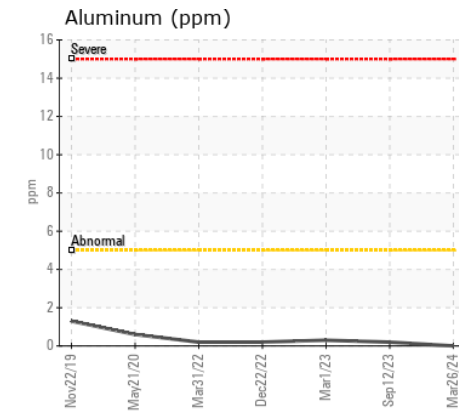
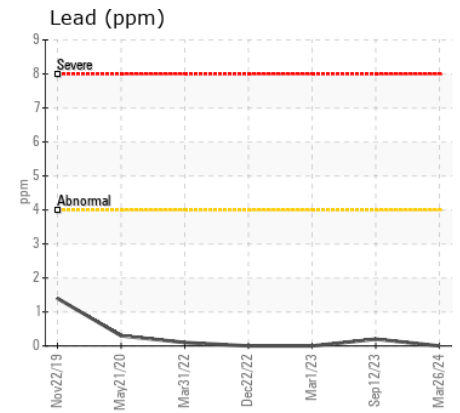
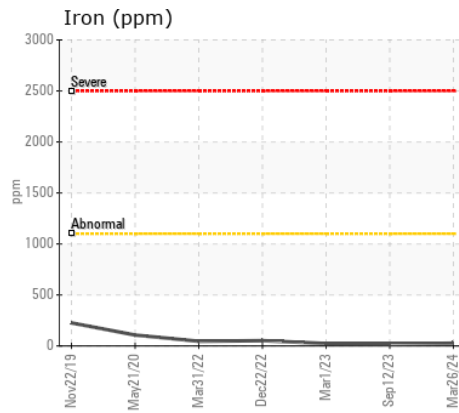
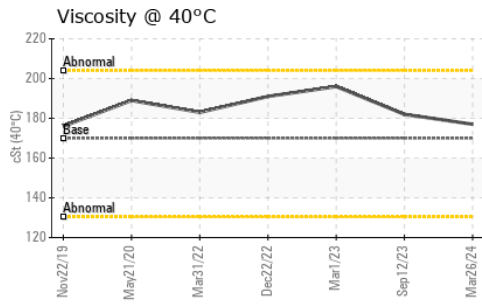
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>40	<b>0</b>	<1	2
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	0
Water		WC Method	>0.2	<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>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*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>1</b>	2	1
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	<1	<1
Barium	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	0	<b>&lt;1</b>	1	1
Manganese	ppm	ASTM D5185(m)	0	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	<1	<b>&lt;1</b>	<1	0
Calcium	ppm	ASTM D5185(m)	<1	<b>3</b>	6	2
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2297</b>	2345	2482
Zinc	ppm	ASTM D5185(m)	<1	<b>5</b>	5	3
Sulfur	ppm	ASTM D5185(m)	23468	<b>26014</b>	25156	26548
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>177</b>	182	196



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0287997 **Received** : 04 Apr 2024  
**Lab Number** : 02626721 **Tested** : 04 Apr 2024  
**Unique Number** : 5759853 **Diagnosed** : 04 Apr 2024 - Wes Davis  
**Test Package** : MOB 1

**ECOWASTE INDUSTRIES LTD.**  
 15111 WILLIAMS ROAD  
 RICHMOND, BC  
 CA V6W 1G9  
 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.

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 F: