



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR L566 077757-1758**  
Component  
**Front Right Wheel Hub**  
Fluid  
**LIEBHERR GEAR BASIC 90 LS (--- GAL)**

### RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0288078</b>	---	---
Sample Date		Client Info		<b>10 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>556</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>N/A</b>	---	---
Sample Status				<b>NORMAL</b>	---	---

### WEAR

Metal levels are typical for a new component breaking in.

Iron	ppm	ASTM D5185(m)	>500	<b>160</b>	---	---
Chromium	ppm	ASTM D5185(m)	>8	<b>2</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>6</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>5	<b>1</b>	---	---
Lead	ppm	ASTM D5185(m)	>5	<b>1</b>	---	---
Copper	ppm	ASTM D5185(m)	>50	<b>64</b>	---	---
Tin	ppm	ASTM D5185(m)		<b>4</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

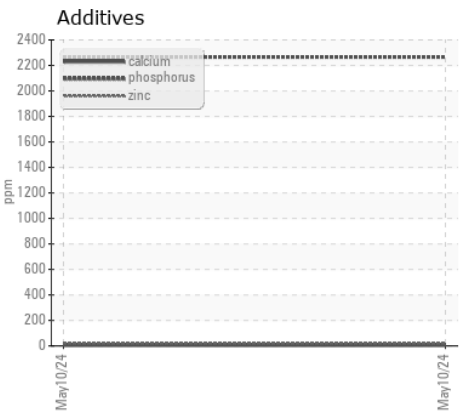
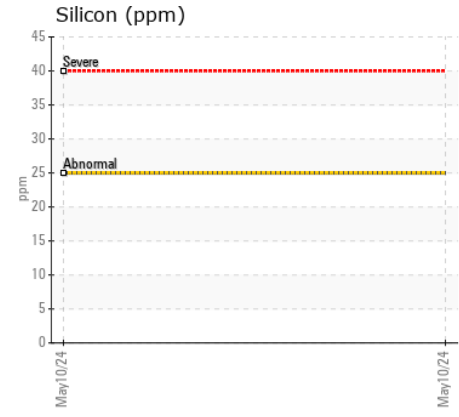
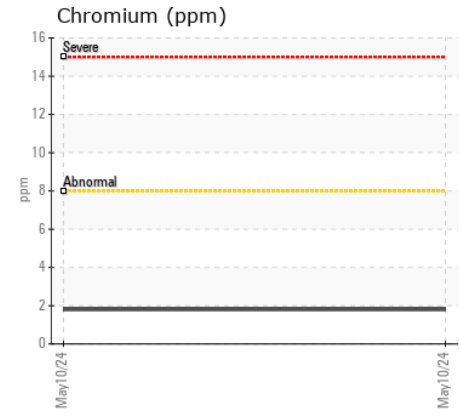
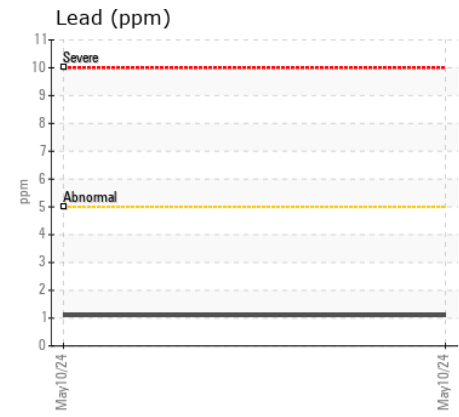
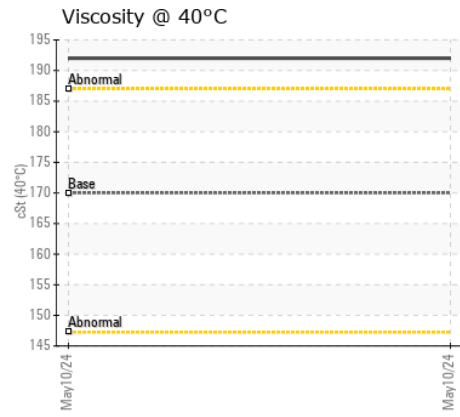
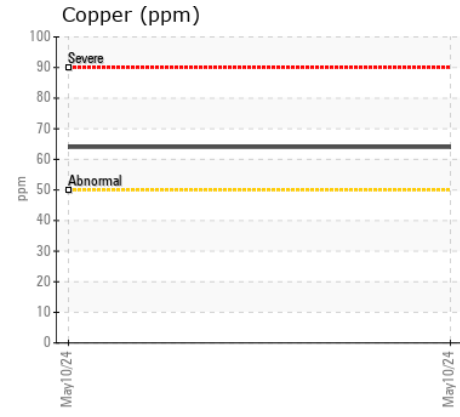
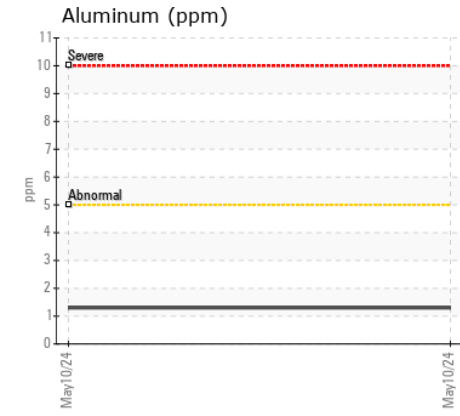
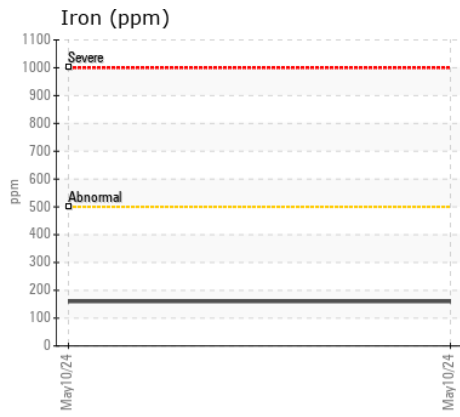
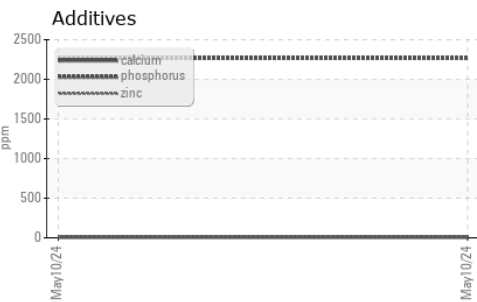
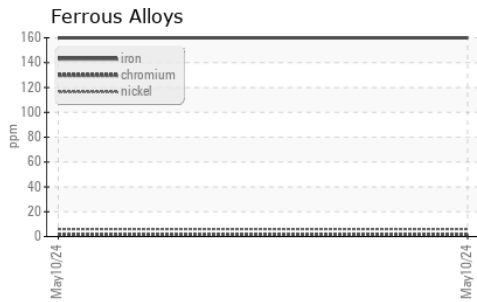
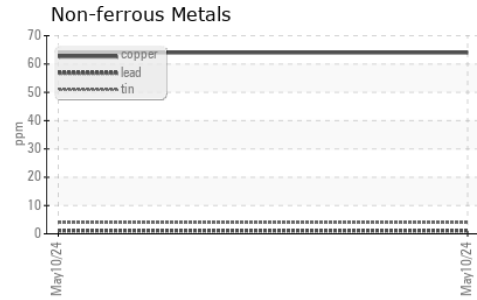
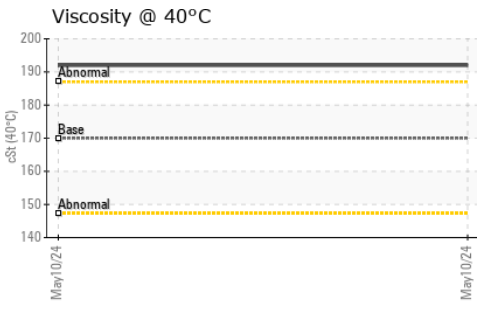
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>25	<b>25</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>VLITE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil.  
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>5</b>	---	---
Boron	ppm	ASTM D5185(m)	0	<b>2</b>	---	---
Barium	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	0	<b>0</b>	---	---
Manganese	ppm	ASTM D5185(m)	0	<b>26</b>	---	---
Magnesium	ppm	ASTM D5185(m)	<1	<b>3</b>	---	---
Calcium	ppm	ASTM D5185(m)	<1	<b>7</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	2143	<b>2266</b>	---	---
Zinc	ppm	ASTM D5185(m)	<1	<b>21</b>	---	---
Sulfur	ppm	ASTM D5185(m)	23468	<b>24505</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	170	<b>192</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : LH0288078 **Received** : 17 May 2024  
**Lab Number** : 02636420 **Tested** : 17 May 2024  
**Unique Number** : 5785582 **Diagnosed** : 21 May 2024 - Kevin Marson  
**Test Package** : MOB 1

**Abbycel Substrate Ltd.**  
 3545 Ross Road  
 Abbotsford, BC  
 CA V4X 1M6  
 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: