



# LIEBHERR

## OIL ANALYSIS REPORT

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



Machine Id  
**LIEBHERR A934C 065595-1007**  
Component  
**Rear Left Wheel Hub**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>LH0264725</b>	---	---
Sample Date		Client Info		<b>18 Apr 2024</b>	---	---
Machine Age	hrs	Client Info		<b>55376</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

### WEAR

Bearing and/or bushing wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>419</b>	---	---
Chromium	ppm	ASTM D5185m	>4	<b>1</b>	---	---
Nickel	ppm	ASTM D5185m	>3	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>15	<b>3</b>	---	---
Lead	ppm	ASTM D5185m	>4	<b>2</b>	---	---
Copper	ppm	ASTM D5185m	>100	<b>▲ 135</b>	---	---
Tin	ppm	ASTM D5185m	>3	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

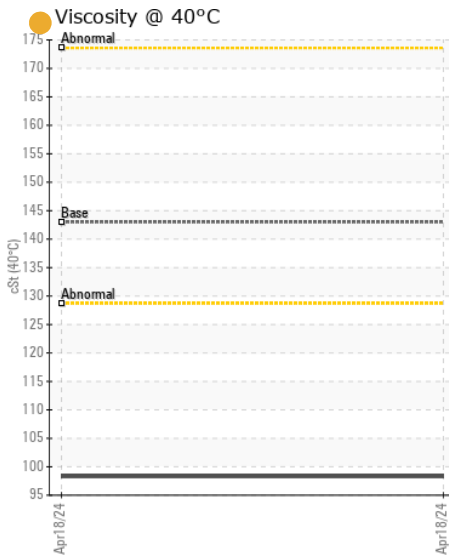
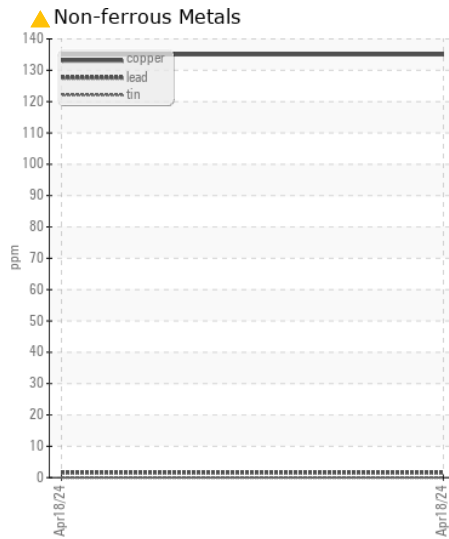
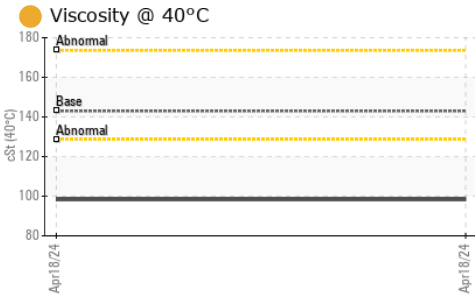
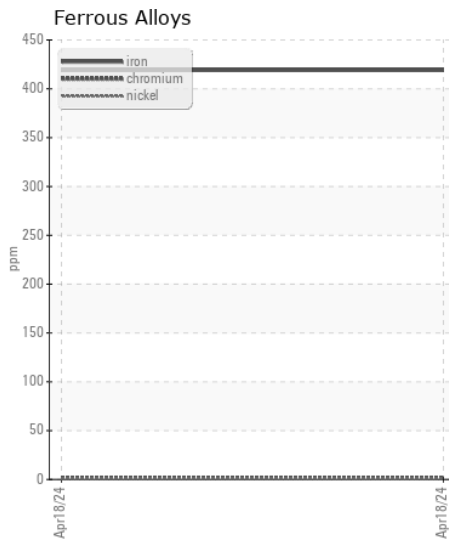
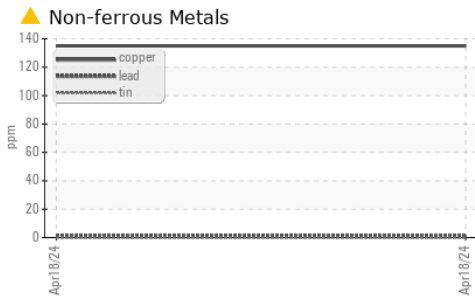
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>65	<b>22</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</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

The oil viscosity is lower than normal. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>170	<b>10</b>	---	---
Boron	ppm	ASTM D5185m	400	<b>33</b>	---	---
Barium	ppm	ASTM D5185m	200	<b>2</b>	---	---
Molybdenum	ppm	ASTM D5185m	12	<b>1</b>	---	---
Manganese	ppm	ASTM D5185m		<b>7</b>	---	---
Magnesium	ppm	ASTM D5185m	12	<b>13</b>	---	---
Calcium	ppm	ASTM D5185m	150	<b>1250</b>	---	---
Phosphorus	ppm	ASTM D5185m	1650	<b>2055</b>	---	---
Zinc	ppm	ASTM D5185m	125	<b>555</b>	---	---
Sulfur	ppm	ASTM D5185m	22500	<b>24823</b>	---	---
Visc @ 40°C	cSt	ASTM D445	143	<b>● 98.3</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : LH0264725  
**Lab Number** : 06161042  
**Unique Number** : 10996465  
**Test Package** : CONST

**Received** : 25 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Don Baldrige

**DOMTAR PULP AND PAPER**  
 301 POINT BASSE AVE  
 NEKOOSA, WI  
 US 54457

Contact: MARK SNYDER  
 mark.snyder@domtar.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (715)675-6900  
 F: (715)675-9748