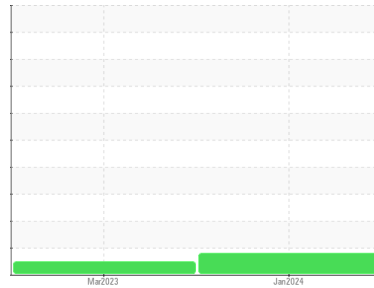




# OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id  
**LIEBHERR LR-1400 CR-4404**

Component  
**Rear Left Track Drive**

Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

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

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### ▲ Fluid Condition

The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0893055</b>	WC0720764	---
Sample Date	Client Info		<b>29 Jan 2024</b>	18 Mar 2023	---
Machine Age	hrs	Client Info	<b>0</b>	4781	---
Oil Age	hrs	Client Info	<b>0</b>	1000	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>ATTENTION</b>	NORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >1000	<b>0</b>	4	---
Chromium	ppm	ASTM D5185m >30	<b>0</b>	<1	---
Nickel	ppm	ASTM D5185m >7	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	2	---
Lead	ppm	ASTM D5185m >50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >100	<b>0</b>	2	---
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>100</b>	273	---
Barium	ppm	ASTM D5185m 15	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 15	<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 50	<b>0</b>	5	---
Calcium	ppm	ASTM D5185m 50	<b>0</b>	10	---
Phosphorus	ppm	ASTM D5185m 350	<b>▲ 990</b>	1293	---
Zinc	ppm	ASTM D5185m 100	<b>0</b>	12	---
Sulfur	ppm	ASTM D5185m 12500	<b>16876</b>	22843	---

## CONTAMINANTS

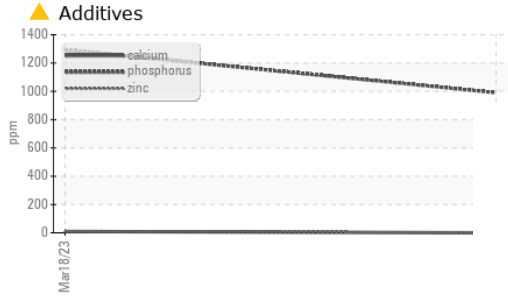
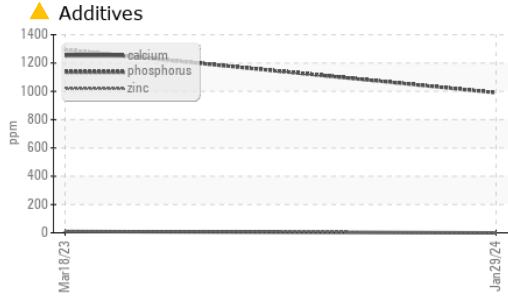
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >150	<b>&lt;1</b>	4	---
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	<1	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	VLITE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>LIGHT</b>	NONE	---
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual >0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual	<b>NEG</b>	NEG	---



# OIL ANALYSIS REPORT



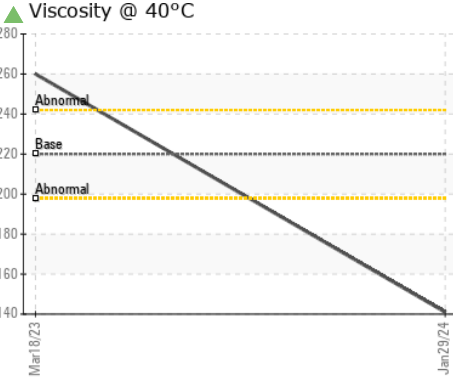
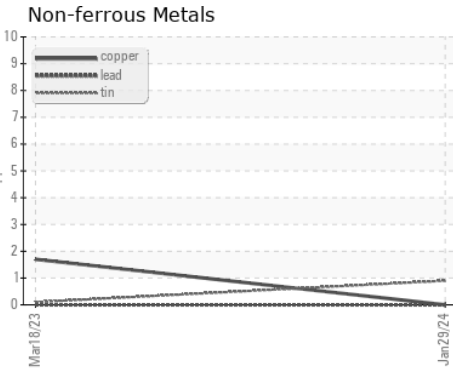
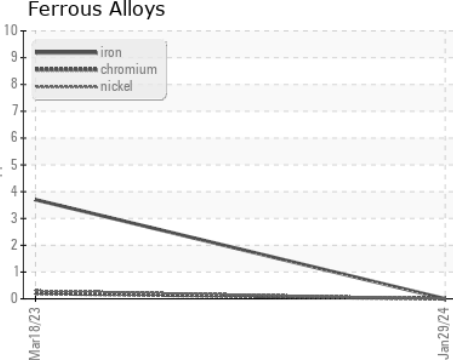
### FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C	cSt	▲ 141	260	---

### SAMPLE IMAGES

method	limit/base	current	history1	history2
Color		no image	no image	no image
Bottom		no image	no image	no image

### GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0893055 **Received** : 30 Jan 2024  
**Lab Number** : 06075185 **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10857276 **Diagnostician** : Jonathan Hester  
**Test Package** : CONST

**BUCKNER - WILLIS**  
 18123 HWY 75 NORTH  
 WILLIS, TX  
 US 77378  
 Contact: JOHN HAWKINS  
 johnh@bucknercompanies.com  
 T:  
 F:

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)