



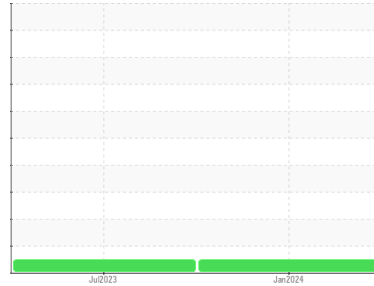
# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**CR1230 - INNER**  
Component  
**Front Left Planetary**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

### Wear

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0873334</b>	WC0823556	---
Sample Date	Client Info		<b>27 Jan 2024</b>	05 Jul 2023	---
Machine Age	hrs	Client Info	<b>5001</b>	1735	---
Oil Age	hrs	Client Info	<b>5001</b>	1735	---
Oil Changed	Client Info		<b>Not Changed</b>	Changed	---
Sample Status			<b>NORMAL</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 >500	<b>0</b>	6	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >25	<b>2</b>	23	---
Lead	ppm	ASTM D5185m >25	<b>0</b>	1	---
Copper	ppm	ASTM D5185m >75	<b>1</b>	2	---
Tin	ppm	ASTM D5185m >10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 50	<b>52</b>	0	---
Barium	ppm	ASTM D5185m 15	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m 15	<b>0</b>	0	---
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185m 50	<b>0</b>	0	---
Calcium	ppm	ASTM D5185m 50	<b>3</b>	1	---
Phosphorus	ppm	ASTM D5185m 350	<b>506</b>	26	---
Zinc	ppm	ASTM D5185m 100	<b>0</b>	0	---
Sulfur	ppm	ASTM D5185m 12500	<b>10604</b>	2487	---

## CONTAMINANTS

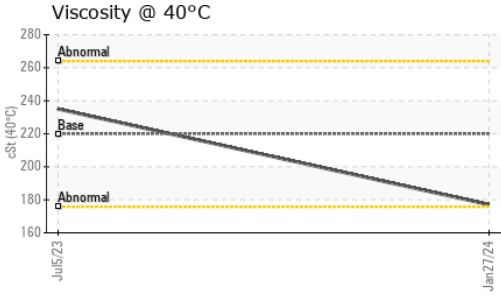
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >75	<b>1</b>	3	---
Sodium	ppm	ASTM D5185m	<b>2</b>	6	---
Potassium	ppm	ASTM D5185m >20	<b>3</b>	6	---

## VISUAL

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual NONE	<b>LIGHT</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	---



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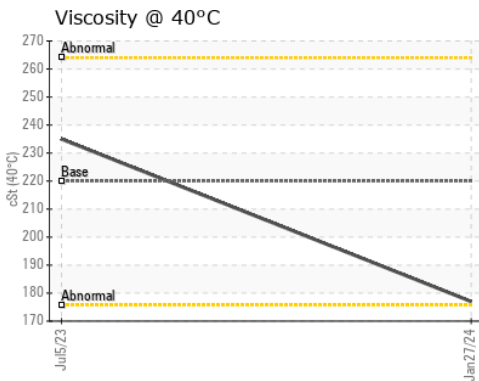
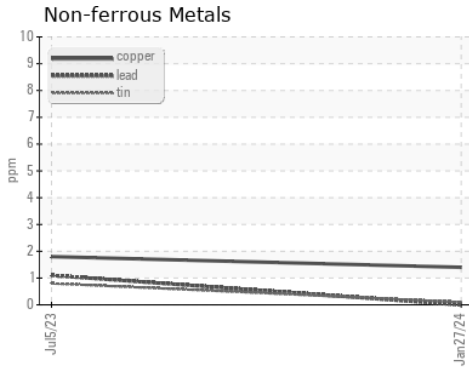
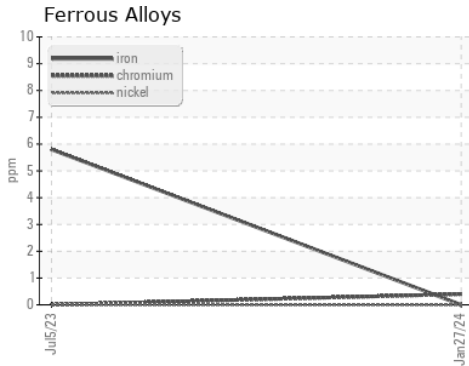


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	177	235	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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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.** : WC0873334      **Received** : 01 Feb 2024  
**Lab Number** : 06077232      **Diagnosed** : 02 Feb 2024  
**Unique Number** : 10859323      **Diagnostician** : Wes Davis  
**Test Package** : CONST

**BUCKNER HEAVY LIFT**  
 4732 NC 54 EAST  
 GRAHAM, NC  
 US 27253-9215  
 Contact: JOHN HAWKIN  
 johnh@bucknercompanies.com  
 T:  
 F: (336)376-4090

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)