



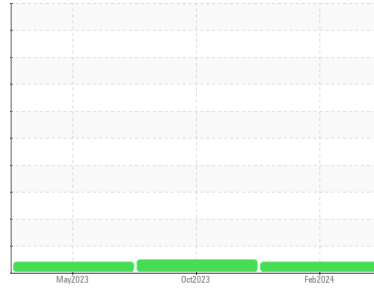
# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY



Machine Id  
**CR1216**  
Component  
**Gearbox**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**



## DIAGNOSIS

### Recommendation

The oil change at the time of sampling has been noted. 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. Confirm oil type.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0873470</b>	WC0810400	WC0809298
Sample Date	Client Info			<b>17 Feb 2024</b>	27 Oct 2023	02 May 2023
Machine Age	hrs	Client Info		<b>3481</b>	3392	2737
Oil Age	hrs	Client Info		<b>0</b>	655	763
Oil Changed	Client Info			<b>Changed</b>	Not Changd	Changed
Sample Status				<b>ATTENTION</b>	NORMAL	ATTENTION

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	<b>39</b>	60	51
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	1
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m	>25	<b>0</b>	2	<1
Lead	ppm	ASTM D5185m	>50	<b>1</b>	<1	0
Copper	ppm	ASTM D5185m	>200	<b>&lt;1</b>	1	<1
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	0

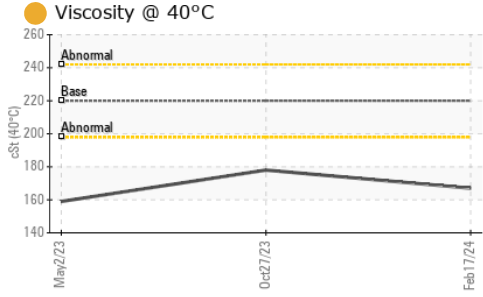
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<b>&lt;1</b>	<1	0
Barium	ppm	ASTM D5185m	15	<b>&lt;1</b>	2	2
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>1</b>	2	4
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	1	0
Calcium	ppm	ASTM D5185m	50	<b>11</b>	15	23
Phosphorus	ppm	ASTM D5185m	350	<b>327</b>	388	257
Zinc	ppm	ASTM D5185m	100	<b>52</b>	66	76
Sulfur	ppm	ASTM D5185m	12500	<b>4407</b>	5543	4766

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>1</b>	3	<1
Sodium	ppm	ASTM D5185m		<b>2</b>	0	6
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	1	3

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
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
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG



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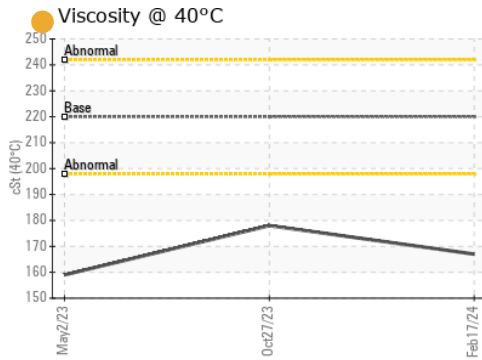
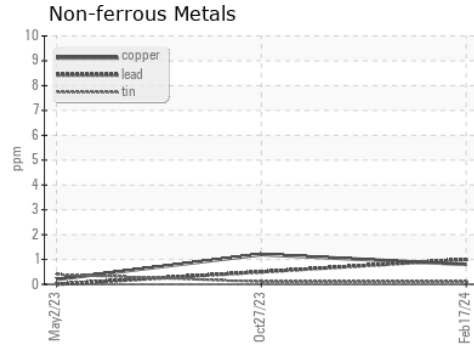
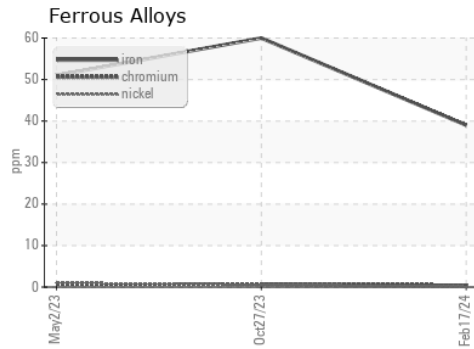
### FLUID PROPERTIES

method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	220	● 167	178 ● 159

### SAMPLE IMAGES

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0873470 **Received** : 26 Feb 2024  
**Lab Number** : 06100492 **Tested** : 27 Feb 2024  
**Unique Number** : 10898722 **Diagnosed** : 28 Feb 2024 - Don Baldrige  
**Test Package** : CONST

**BUCKNER HEAVY LIFT**  
 4732 NC 54 EAST  
 GRAHAM, NC  
 US 27253-9215  
 Contact: MICHAEL LAWSON  
 michael@bucknercompanies.com  
 T: (336)376-8888  
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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)