



# OIL ANALYSIS REPORT

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

Machine Id  
**CR1224 - OUTER**  
Component  
**Front Left Planetary**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0951992</b>	WC0823532	WC0704391
Sample Date		Client Info		<b>21 Jun 2024</b>	14 Jun 2023	15 Jun 2022
Machine Age	hrs	Client Info		<b>2495</b>	1680	825
Oil Age	hrs	Client Info		<b>815</b>	1000	825
Filter Age	hrs	Client Info		<b>0</b>	1000	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>4</b>	82	3
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>25	<b>3</b>	1	0
Lead	ppm	ASTM D5185m	>25	<b>0</b>	<1	2
Copper	ppm	ASTM D5185m	>75	<b>&lt;1</b>	13	<1
Tin	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	<1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

There is no indication of any contamination in the oil.

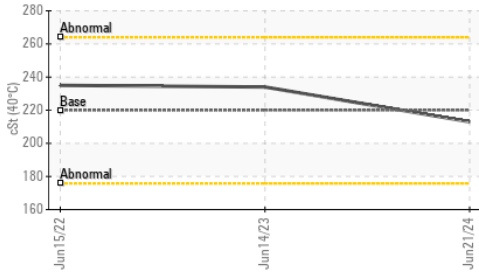
Silicon	ppm	ASTM D5185m	>75	<b>&lt;1</b>	1	2
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	3	23
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	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

## FLUID CONDITION

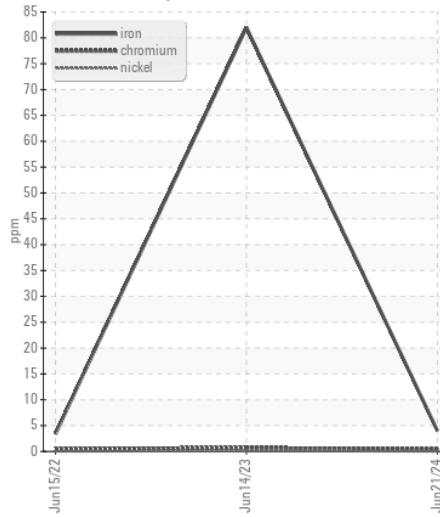
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>2</b>	2	9
Boron	ppm	ASTM D5185m	50	<b>4</b>	0	2
Barium	ppm	ASTM D5185m	15	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	2	0
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	0	2
Calcium	ppm	ASTM D5185m	50	<b>0</b>	14	0
Phosphorus	ppm	ASTM D5185m	350	<b>1075</b>	60	53
Zinc	ppm	ASTM D5185m	100	<b>0</b>	15	0
Sulfur	ppm	ASTM D5185m	12500	<b>1627</b>	2758	1158
Visc @ 40°C	cSt	ASTM D445	220	<b>213</b>	234	235

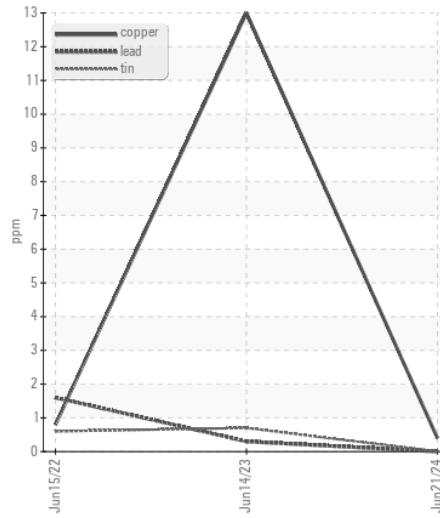
Viscosity @ 40°C



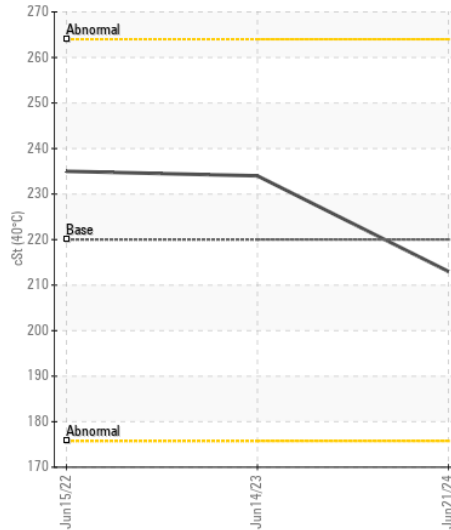
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0951992  
**Lab Number** : 06226631  
**Unique Number** : 11110124  
**Test Package** : CONST  
**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 05 Jul 2024 - Don Baldrige

**BUCKNER HEAVY LIFT**  
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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)