



# OIL ANALYSIS REPORT

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

Machine Id  
**CR5503**  
Component  
**1 Winch**  
Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

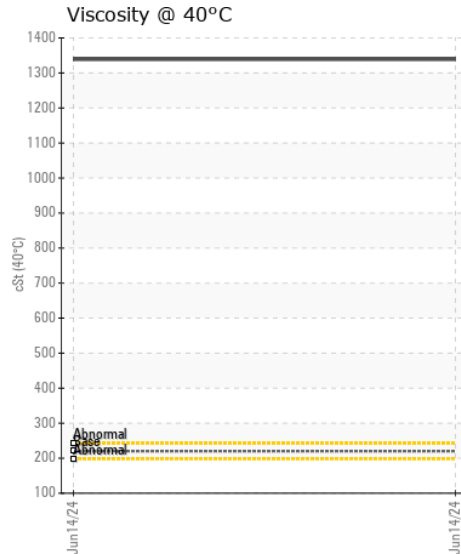
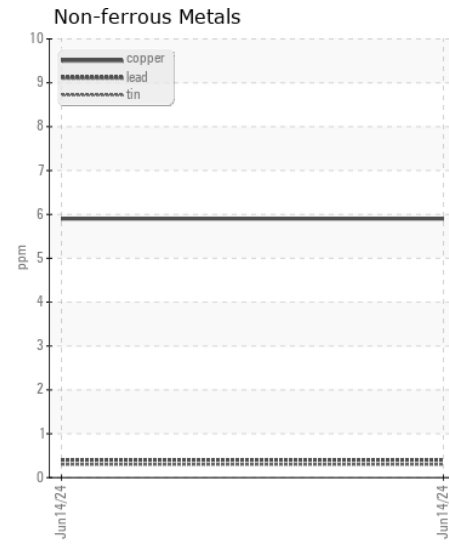
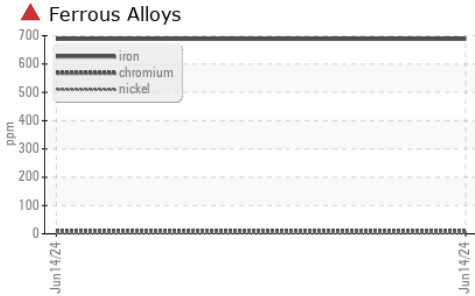
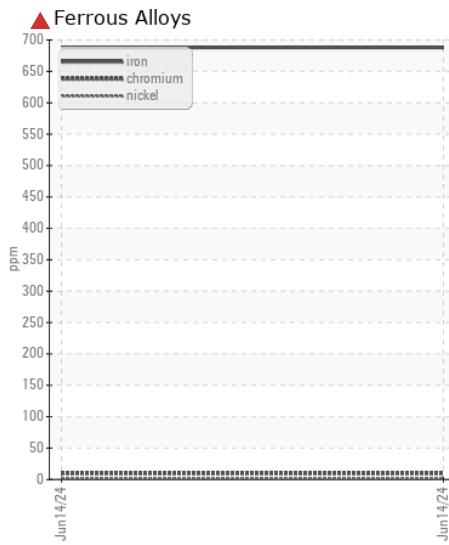
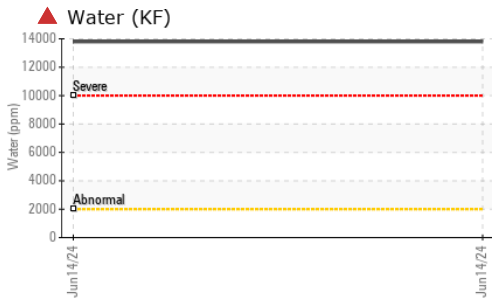
## CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil. There is a high amount of visible silt present in the sample. There is a high concentration of water present in the oil.

## FLUID CONDITION

The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0952190</b>	---	---
Sample Date		Client Info		<b>14 Jun 2024</b>	---	---
Machine Age	hrs	Client Info		<b>10882</b>	---	---
Oil Age	hrs	Client Info		<b>740</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---
Iron	ppm	ASTM D5185m	>150	<b>▲ 688</b>	---	---
Chromium	ppm	ASTM D5185m	>10	<b>10</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>5	<b>5</b>	---	---
Lead	ppm	ASTM D5185m	>15	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>80	<b>6</b>	---	---
Tin	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Silicon	ppm	ASTM D5185m	>25	<b>16</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>10</b>	---	---
Water	%	ASTM D6304	>0.2	<b>▲ 1.38</b>	---	---
ppm Water	ppm	ASTM D6304	>2000	<b>▲ 13800</b>	---	---
Silt	scalar	*Visual	NONE	<b>▲ HEAVY</b>	---	---
Debris	scalar	*Visual	NONE	<b>▲ MODER</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>▲ 0.2%</b>	---	---
Sodium	ppm	ASTM D5185m		<b>17</b>	---	---
Boron	ppm	ASTM D5185m	50	<b>3</b>	---	---
Barium	ppm	ASTM D5185m	15	<b>0</b>	---	---
Molybdenum	ppm	ASTM D5185m	15	<b>0</b>	---	---
Manganese	ppm	ASTM D5185m		<b>9</b>	---	---
Magnesium	ppm	ASTM D5185m	50	<b>5</b>	---	---
Calcium	ppm	ASTM D5185m	50	<b>162</b>	---	---
Phosphorus	ppm	ASTM D5185m	350	<b>86</b>	---	---
Zinc	ppm	ASTM D5185m	100	<b>155</b>	---	---
Sulfur	ppm	ASTM D5185m	12500	<b>2603</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0952190 **Received** : 24 Jun 2024  
**Lab Number** : 06218956 **Tested** : 26 Jun 2024  
**Unique Number** : 11097153 **Diagnosed** : 26 Jun 2024 - Don Baldrige  
**Test Package** : CONST ( Additional Tests: KF )

**BUCKNER HEAVY LIFT**  
 4732 NC 54 EAST  
 GRAHAM, NC  
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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)