



# OIL ANALYSIS REPORT

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

Machine Id  
**HC2207 - FRONT**  
 Component  
**1 Winch**  
 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>WC0936020</b>	WC0784926	---
Sample Date		Client Info		<b>14 May 2024</b>	26 Apr 2023	---
Machine Age	hrs	Client Info		<b>8388</b>	7638	---
Oil Age	hrs	Client Info		<b>750</b>	974	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Changed	---
Filter Changed		Client Info		<b>Not Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	<b>46</b>	80	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>5	<b>0</b>	0	---
Lead	ppm	ASTM D5185m	>15	<b>0</b>	<1	---
Copper	ppm	ASTM D5185m	>80	<b>13</b>	13	---
Tin	ppm	ASTM D5185m		<b>1</b>	1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

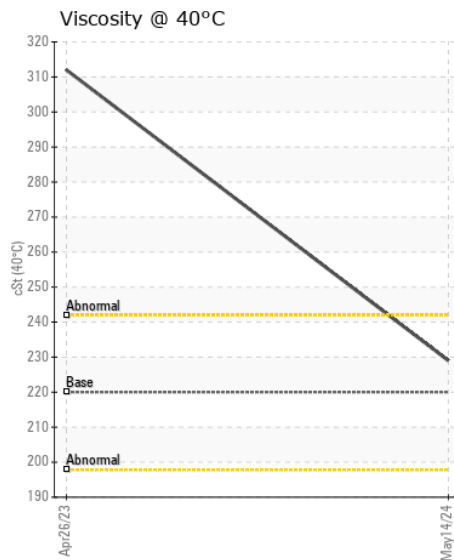
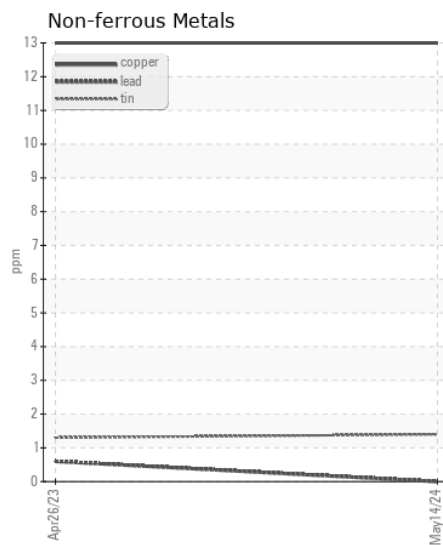
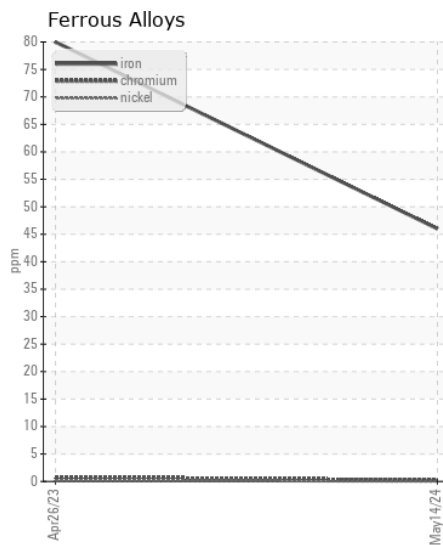
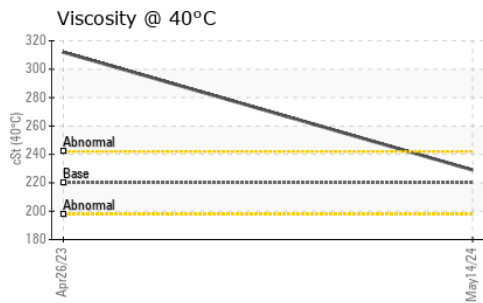
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<b>2</b>	3	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
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>	<b>SOLID</b>	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	2	---
Boron	ppm	ASTM D5185m	50	<b>41</b>	130	---
Barium	ppm	ASTM D5185m	15	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	15	<b>2</b>	0	---
Manganese	ppm	ASTM D5185m		<b>1</b>	2	---
Magnesium	ppm	ASTM D5185m	50	<b>0</b>	4	---
Calcium	ppm	ASTM D5185m	50	<b>4</b>	8	---
Phosphorus	ppm	ASTM D5185m	350	<b>703</b>	<b>1102</b>	---
Zinc	ppm	ASTM D5185m	100	<b>34</b>	67	---
Sulfur	ppm	ASTM D5185m	12500	<b>13344</b>	<b>23102</b>	---
Visc @ 40°C	cSt	ASTM D445	220	<b>229</b>	<b>312</b>	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0936020  
**Lab Number** : 06191365  
**Unique Number** : 11048117  
**Test Package** : CONST

**Received** : 24 May 2024  
**Tested** : 28 May 2024  
**Diagnosed** : 29 May 2024 - Sean Felton

**BUCKNER HEAVY LIFT**  
 4732 NC 54 EAST  
 GRAHAM, NC  
 US 27253-9215

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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)

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