



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
CR1216 - 4.1
Component
Left 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		WC0873474	WC0809256	---
Sample Date		Client Info		17 Feb 2024	02 May 2023	---
Machine Age	hrs	Client Info		0	2737	---
Oil Age	hrs	Client Info		0	763	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	22	42	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>5	0	1	---
Lead	ppm	ASTM D5185m	>15	2	2	---
Copper	ppm	ASTM D5185m	>80	1	16	---
Tin	ppm	ASTM D5185m		<1	2	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	MODER	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

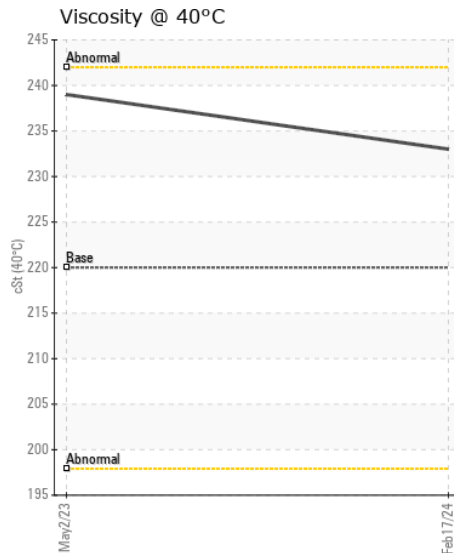
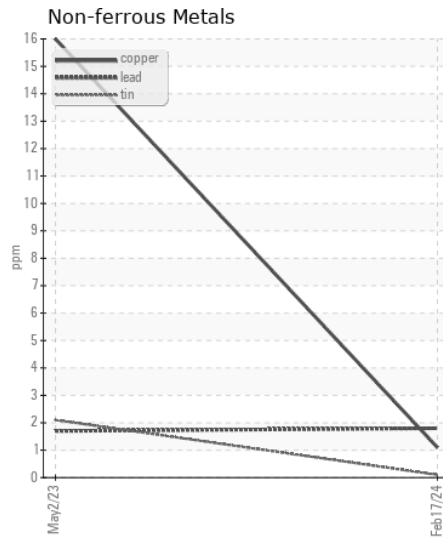
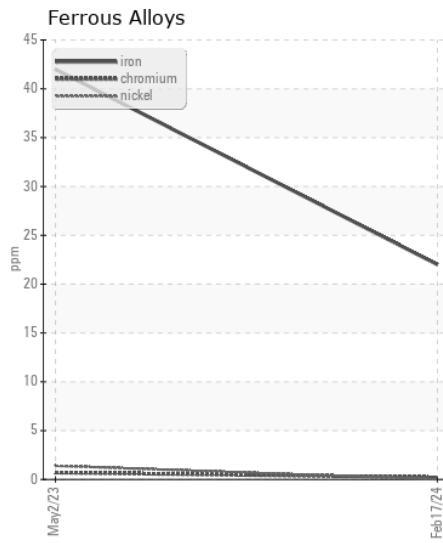
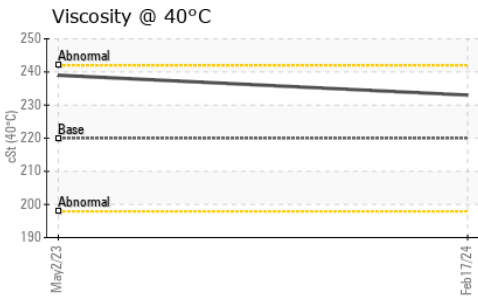
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>25	<1	<1	---
Potassium	ppm	ASTM D5185m	>20	1	9	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		1	8	---
Boron	ppm	ASTM D5185m	50	0	9	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	0	<1	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m	50	<1	2	---
Calcium	ppm	ASTM D5185m	50	3	22	---
Phosphorus	ppm	ASTM D5185m	350	265	8	---
Zinc	ppm	ASTM D5185m	100	13	25	---
Sulfur	ppm	ASTM D5185m	12500	4454	2422	---
Visc @ 40°C	cSt	ASTM D445	220	233	239	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0873474

Lab Number : 06100485

Unique Number : 10898715

Test Package : CONST

Received : 26 Feb 2024

Tested : 27 Feb 2024

Diagnosed : 28 Feb 2024 - Don Baldrige

BUCKNER HEAVY LIFT

4732 NC 54 EAST

GRAHAM, NC

US 27253-9215

Contact: MICHAEL LAWSON

michaell@bucknercompanies.com

T: (336)376-8888

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)