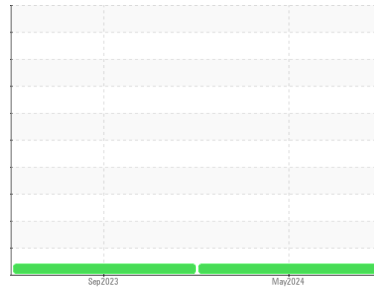




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
HC2208

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			WC0809547	WC0810431	---
Sample Date	Client Info			08 May 2024	09 Sep 2023	---
Machine Age	hrs	Client Info		9859	9039	---
Oil Age	hrs	Client Info		2359	0	---
Oil Changed	Client Info			Changed	Changed	---
Sample Status				ATTENTION	ATTENTION	---

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	6	---
Chromium	ppm	ASTM D5185m	>10	<1	0	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	3	1	---
Lead	ppm	ASTM D5185m	>50	<1	0	---
Copper	ppm	ASTM D5185m	>200	1	2	---
Tin	ppm	ASTM D5185m	>10	<1	0	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
Cadmium	ppm	ASTM D5185m		0	0	---

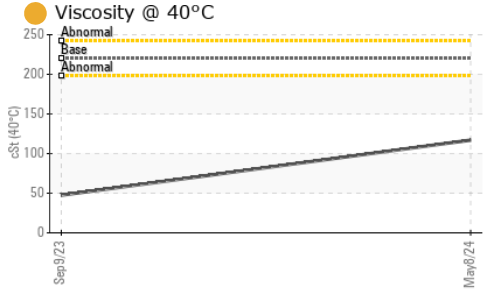
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	50	<1	0	---
Barium	ppm	ASTM D5185m	15	0	0	---
Molybdenum	ppm	ASTM D5185m	15	<1	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	50	3	0	---
Calcium	ppm	ASTM D5185m	50	47	61	---
Phosphorus	ppm	ASTM D5185m	350	419	199	---
Zinc	ppm	ASTM D5185m	100	214	123	---
Sulfur	ppm	ASTM D5185m	12500	4418	1491	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	4	5	---
Sodium	ppm	ASTM D5185m		0	1	---
Potassium	ppm	ASTM D5185m	>20	1	0	---

VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	NONE	---
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	---
Free Water	scalar	*Visual		NEG	NEG	---



OIL ANALYSIS REPORT



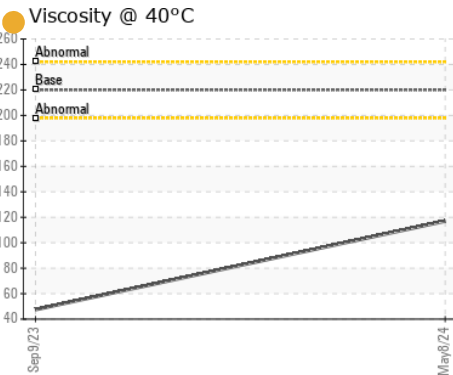
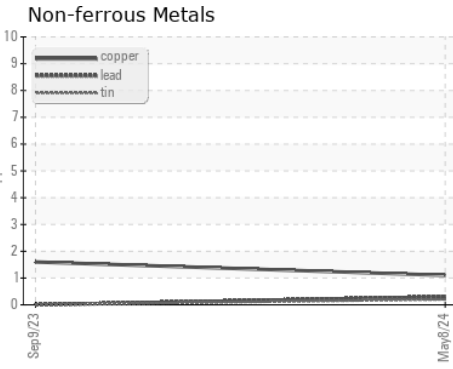
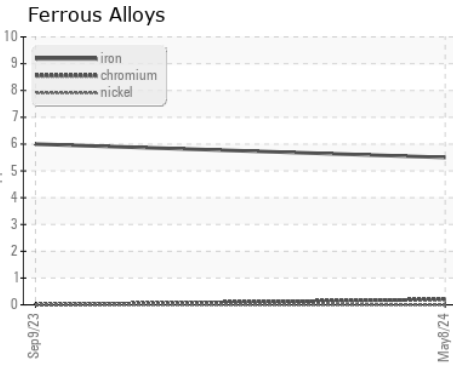
FLUID PROPERTIES

	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 220	● 117	● 47.49	---

SAMPLE IMAGES

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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0809547 **Received** : 20 May 2024
Lab Number : 06185297 **Tested** : 22 May 2024
Unique Number : 11036623 **Diagnosed** : 22 May 2024 - Sean Felton
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
 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)