



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
HC2229
Component
Gearbox
Fluid
GEAR OIL FG ISO 220 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

WEAR

Gear wear is indicated.

CONTAMINATION

There is a light concentration of water present in the oil.

FLUID CONDITION

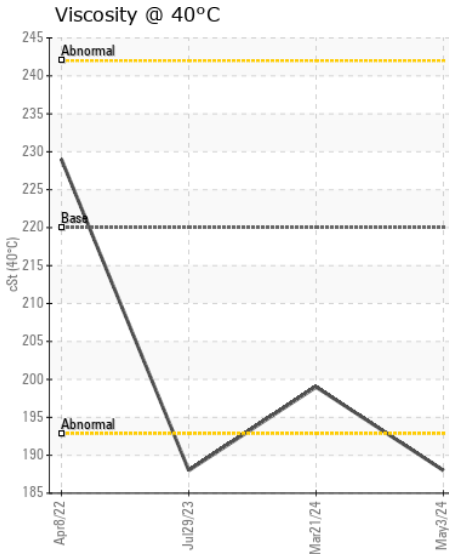
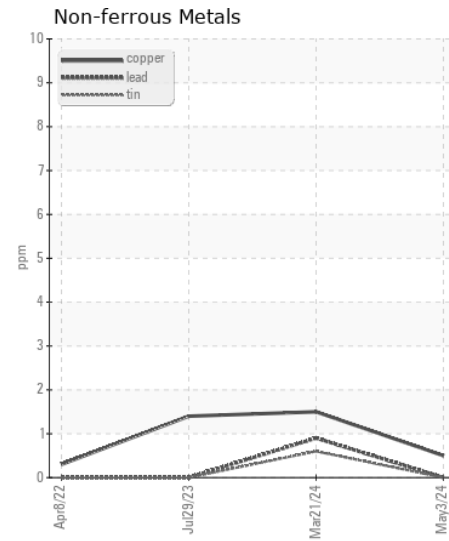
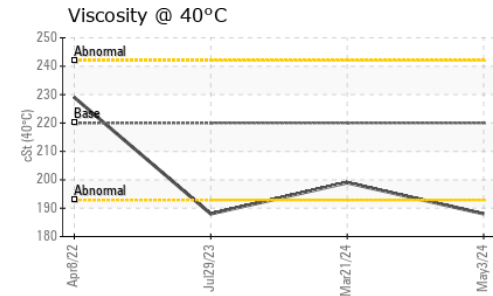
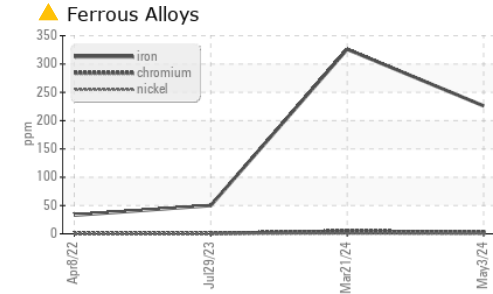
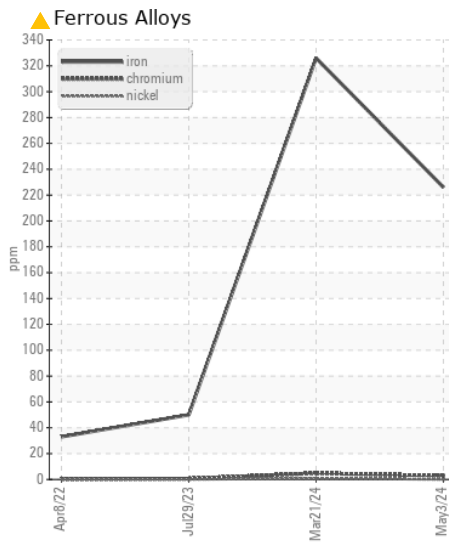
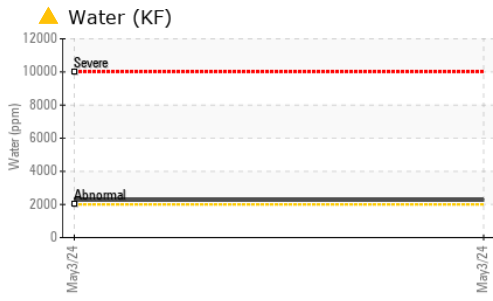
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0935960	WC0877387	WC0810377
Sample Date		Client Info		03 May 2024	21 Mar 2024	29 Jul 2023
Machine Age	hrs	Client Info		7376	7297	6455
Oil Age	hrs	Client Info		921	842	0
Filter Age	hrs	Client Info		0	842	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

Iron	ppm	ASTM D5185m	>200	▲ 226	▲ 326	50
Chromium	ppm	ASTM D5185m	>10	3	5	<1
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	15	▲ 21	5
Lead	ppm	ASTM D5185m	>50	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	2	1
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>50	4	8	12
Potassium	ppm	ASTM D5185m	>20	1	2	<1
Water	%	ASTM D6304	>0.2	▲ 0.226	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 2260	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	NORML	SOLID
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	NEG	NEG

Sodium	ppm	ASTM D5185m		1	0	0
Boron	ppm	ASTM D5185m	5	4	5	0
Barium	ppm	ASTM D5185m	5	0	1	<1
Molybdenum	ppm	ASTM D5185m	5	0	1	0
Manganese	ppm	ASTM D5185m		2	3	<1
Magnesium	ppm	ASTM D5185m	5	0	4	<1
Calcium	ppm	ASTM D5185m	12	0	12	<1
Phosphorus	ppm	ASTM D5185m	400	355	405	338
Zinc	ppm	ASTM D5185m	12	8	36	11
Sulfur	ppm	ASTM D5185m	750	6941	5760	2039
Visc @ 40°C	cSt	ASTM D445	220	188	199	188



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935960 **Received** : 10 May 2024
Lab Number : 06176301 **Tested** : 14 May 2024
Unique Number : 11022354 **Diagnosed** : 14 May 2024 - Sean Felton
Test Package : CONST (Additional Tests: KF)

BUCKNER HEAVY LIFT
 4732 NC 54 EAST
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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)