OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
HC2229
Component
1 Winch
Fluid
GEAR OIL 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

The lead level is abnormal. All other component wear rates are normal.

CONTAMINATION

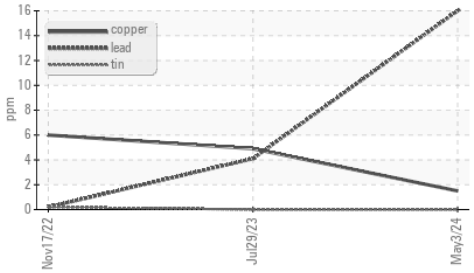
There is no indication of any contamination in the oil.

FLUID CONDITION

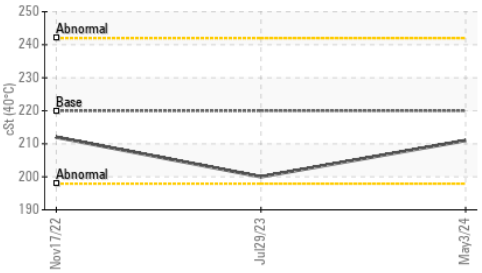
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		**WC0935962**	WC0810423	WC0720447
Sample Date		Client Info		**03 May 2024**	29 Jul 2023	17 Nov 2022
Machine Age	hrs	Client Info		**7376**	6455	5125
Oil Age	hrs	Client Info		**921**	0	717
Filter Age	hrs	Client Info		**0**	0	717
Oil Changed		Client Info		**Changed**	Changed	Changed
Filter Changed		Client Info		**Not Changd**	Changed	Changed
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>150	**51**	▲ 310	53
Chromium	ppm	ASTM D5185m	>10	**<1**	5	<1
Nickel	ppm	ASTM D5185m	>10	**0**	1	3
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	1
Aluminum	ppm	ASTM D5185m	>5	**<1**	1	1
Lead	ppm	ASTM D5185m	>15	▲ **16**	4	<1
Copper	ppm	ASTM D5185m	>80	**2**	5	6
Tin	ppm	ASTM D5185m		**0**	0	<1
Vanadium	ppm	ASTM D5185m		**0**	<1	<1
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	**7**	▲ 29	23
Potassium	ppm	ASTM D5185m	>20	**2**	4	1
Water		WC Method	>0.2	**NEG**	NEG	NEG
Silt	scalar	*Visual	NONE	**MODER**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	▲ 0.2%
Sodium	ppm	ASTM D5185m		**2**	4	4
Boron	ppm	ASTM D5185m	50	**2**	0	6
Barium	ppm	ASTM D5185m	15	**0**	0	0
Molybdenum	ppm	ASTM D5185m	15	**0**	<1	<1
Manganese	ppm	ASTM D5185m		**1**	5	<1
Magnesium	ppm	ASTM D5185m	50	**0**	2	2
Calcium	ppm	ASTM D5185m	50	**0**	10	43
Phosphorus	ppm	ASTM D5185m	350	**360**	234	473
Zinc	ppm	ASTM D5185m	100	**4**	53	43
Sulfur	ppm	ASTM D5185m	12500	**6425**	1348	1727
Visc @ 40°C	cSt	ASTM D445	220	**211**	200	212

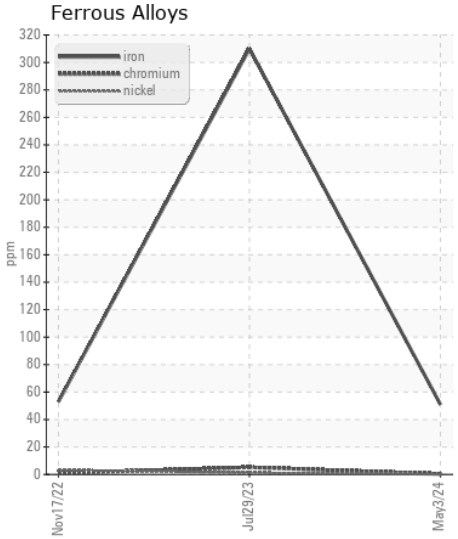
Non-ferrous Metals



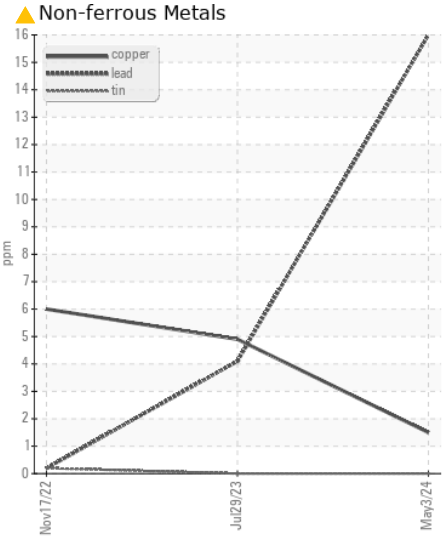
Viscosity @ 40°C



Ferrous Alloys



Non-ferrous Metals



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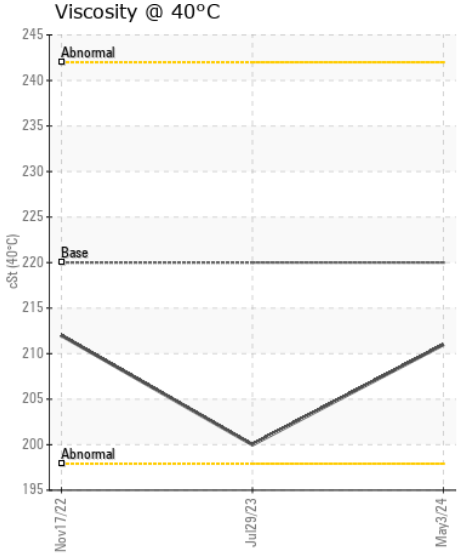

Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0935962
Lab Number : 06176303
Unique Number : 11022356
Test Package : CONST

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 14 May 2024 - Sean Felton

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)

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