



OIL ANALYSIS REPORT

WEAR
CONTAMINATION
FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Machine Id
HC2209
Component
Left Track Drive
Fluid
GEAR OIL ISO 220 (--- GAL)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. 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

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

FLUID CONDITION

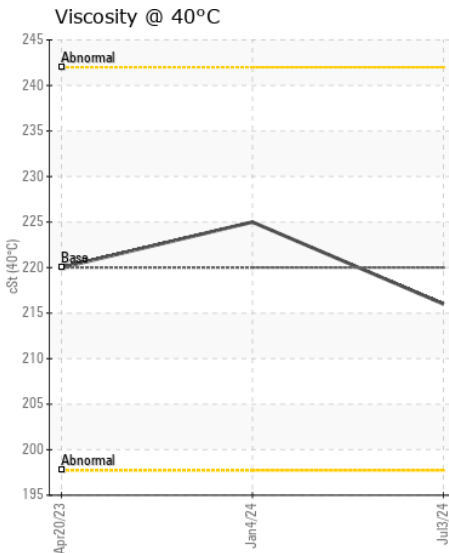
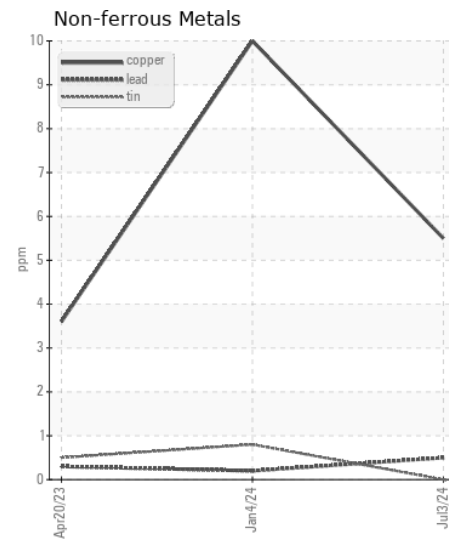
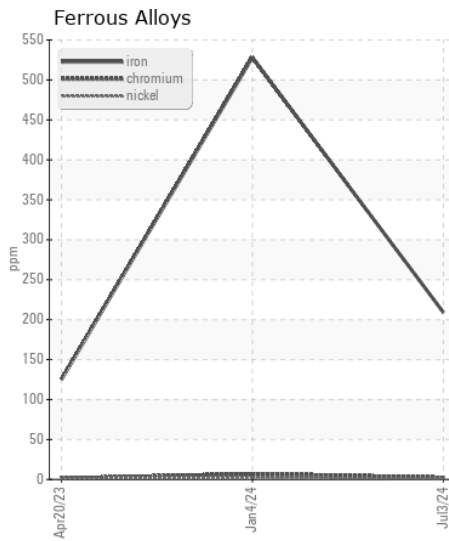
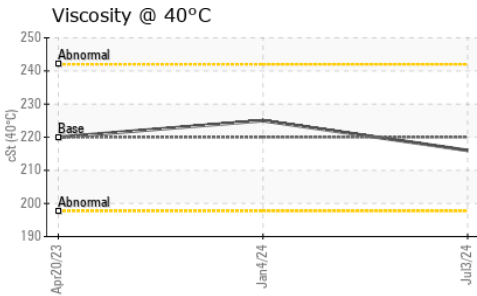
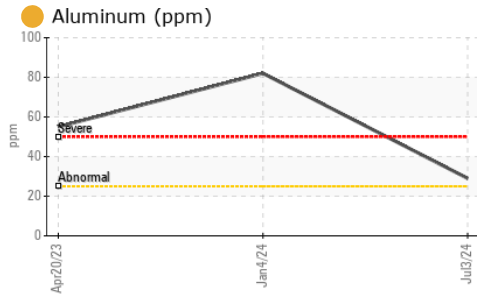
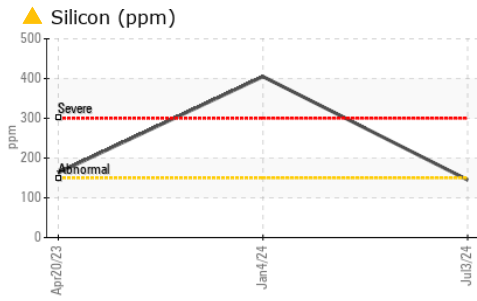
The condition of the oil is acceptable for the time in service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0951923	WC0867433	WC0784999
Sample Date		Client Info		03 Jul 2024	04 Jan 2024	20 Apr 2023
Machine Age	hrs	Client Info		10485	0	8992
Oil Age	hrs	Client Info		1000	0	1340
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Not Changd	Changed
Sample Status				ABNORMAL	SEVERE	SEVERE

Iron	ppm	ASTM D5185m	>1000	209	▲ 528	125
Chromium	ppm	ASTM D5185m	>30	2	7	1
Nickel	ppm	ASTM D5185m	>7	<1	2	2
Titanium	ppm	ASTM D5185m		2	6	2
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	29	● 82	● 55
Lead	ppm	ASTM D5185m	>50	<1	<1	<1
Copper	ppm	ASTM D5185m	>100	6	10	4
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

Silicon	ppm	ASTM D5185m	>150	▲ 145	▲ 405	▲ 163
Potassium	ppm	ASTM D5185m	>20	9	23	12
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	MODER	MODER	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		4	8	3
Boron	ppm	ASTM D5185m	50	2	13	6
Barium	ppm	ASTM D5185m	15	0	0	0
Molybdenum	ppm	ASTM D5185m	15	0	0	<1
Manganese	ppm	ASTM D5185m		4	6	3
Magnesium	ppm	ASTM D5185m	50	20	54	22
Calcium	ppm	ASTM D5185m	50	37	95	40
Phosphorus	ppm	ASTM D5185m	350	450	504	449
Zinc	ppm	ASTM D5185m	100	5	6	8
Sulfur	ppm	ASTM D5185m	12500	8329	6609	9211
Visc @ 40°C	cSt	ASTM D445	220	216	225	220



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0951923
Lab Number : 06231799
Unique Number : 11115292
Test Package : CONST

Received : 09 Jul 2024
Tested : 10 Jul 2024
Diagnosed : 11 Jul 2024 - Jonathan Hester

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)