



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
HC1111
Component
Hydraulic System
Fluid
ATF (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0952101	WC0867358	WC0810476
Sample Date		Client Info		18 Jun 2024	29 Nov 2023	11 Jul 2023
Machine Age	hrs	Client Info		9134	8352	8096
Oil Age	hrs	Client Info		1000	0	0
Filter Age	hrs	Client Info		1000	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Filter Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ATTENTION	ABNORMAL	ATTENTION

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	8	4	5
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		<1	0	0
Aluminum	ppm	ASTM D5185m	>10	3	0	<1
Lead	ppm	ASTM D5185m	>10	2	0	0
Copper	ppm	ASTM D5185m	>75	5	3	2
Tin	ppm	ASTM D5185m	>10	2	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

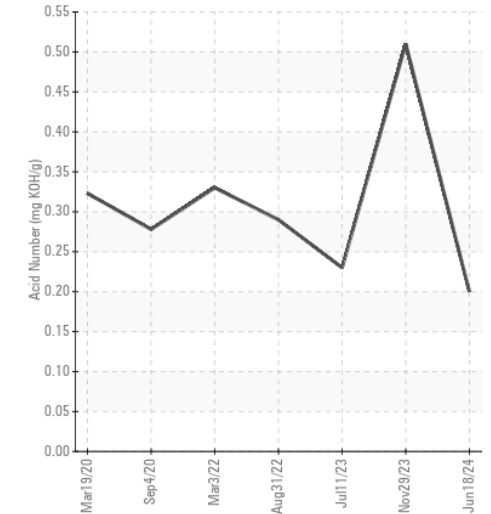
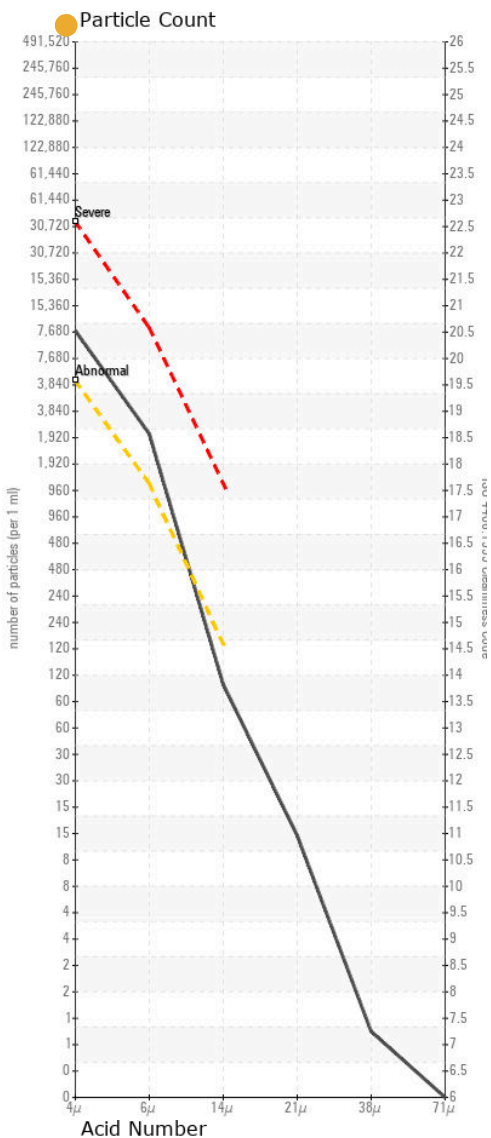
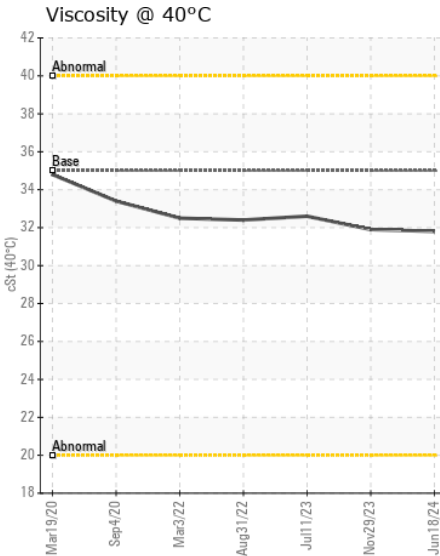
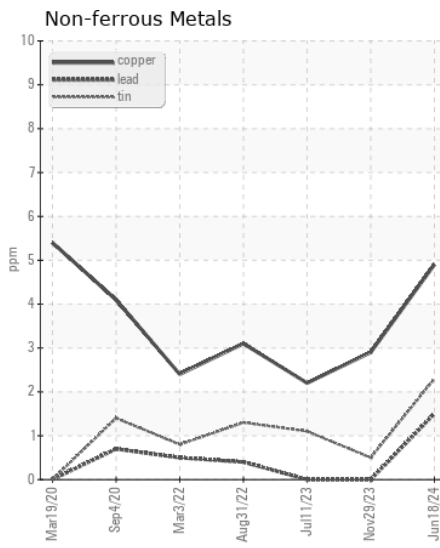
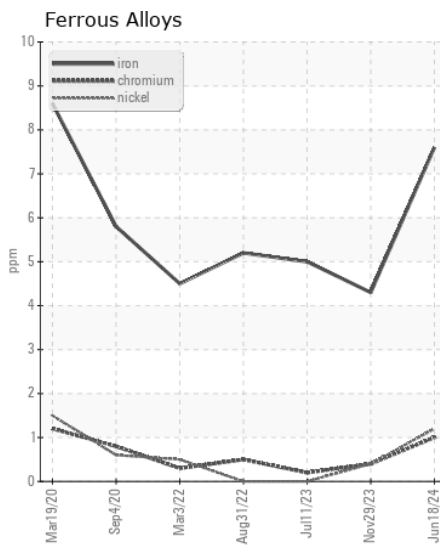
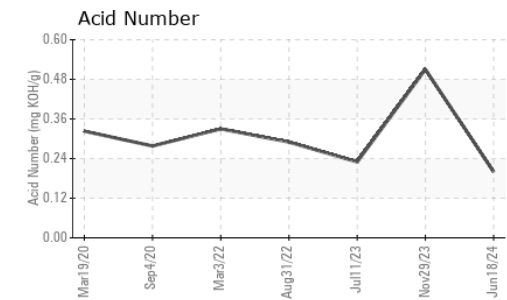
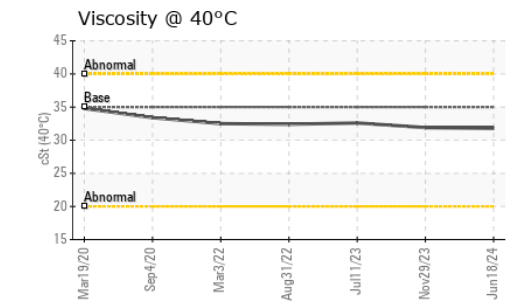
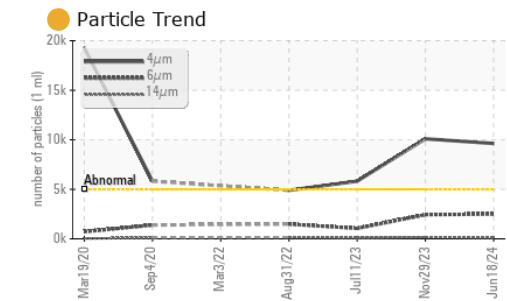
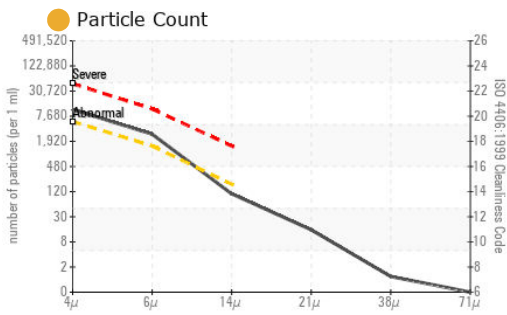
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	4	2	2
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	9625	▲ 10100	● 5824
Particles >6µm		ASTM D7647	>1300	2495	▲ 2437	1053
Particles >14µm		ASTM D7647	>160	94	150	86
Particles >21µm		ASTM D7647	>40	13	39	24
Particles >38µm		ASTM D7647	>10	1	2	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/14	▲ 21/18/14	● 20/17/14
Silt	scalar	*Visual	NONE	NONE	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		1	3	<1
Boron	ppm	ASTM D5185m		40	43	47
Barium	ppm	ASTM D5185m		1	0	0
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		8	5	3
Calcium	ppm	ASTM D5185m		116	73	84
Phosphorus	ppm	ASTM D5185m		302	241	265
Zinc	ppm	ASTM D5185m		215	179	198
Sulfur	ppm	ASTM D5185m		1543	1321	1658
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.51	0.23
Visc @ 40°C	cSt	ASTM D445	35.0	31.8	31.9	32.6



Certificate L2367

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

Sample No. : WC0952101

Lab Number : 06216797

Unique Number : 11089661

Test Package : CONST

Received : 21 Jun 2024

Tested : 24 Jun 2024

Diagnosed : 24 Jun 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)