



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ATTENTION

Machine Id
CR1227
Component
Hydraulic System
Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0892950	WC0687185	---
Sample Date		Client Info		08 Apr 2024	05 Aug 2022	---
Machine Age	hrs	Client Info		1994	415	---
Oil Age	hrs	Client Info		0	415	---
Filter Age	hrs	Client Info		1000	415	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	0	<1	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>10	2	3	---
Copper	ppm	ASTM D5185m	>75	7	11	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

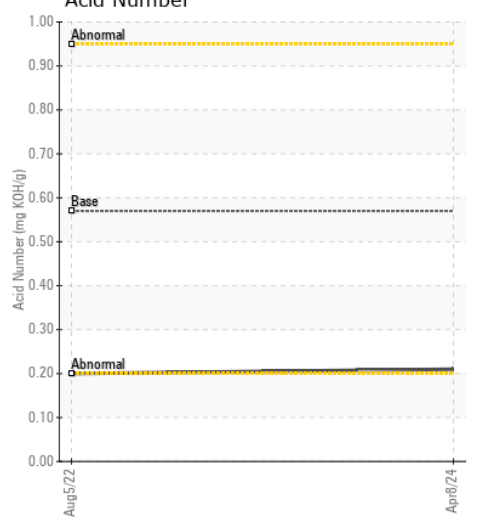
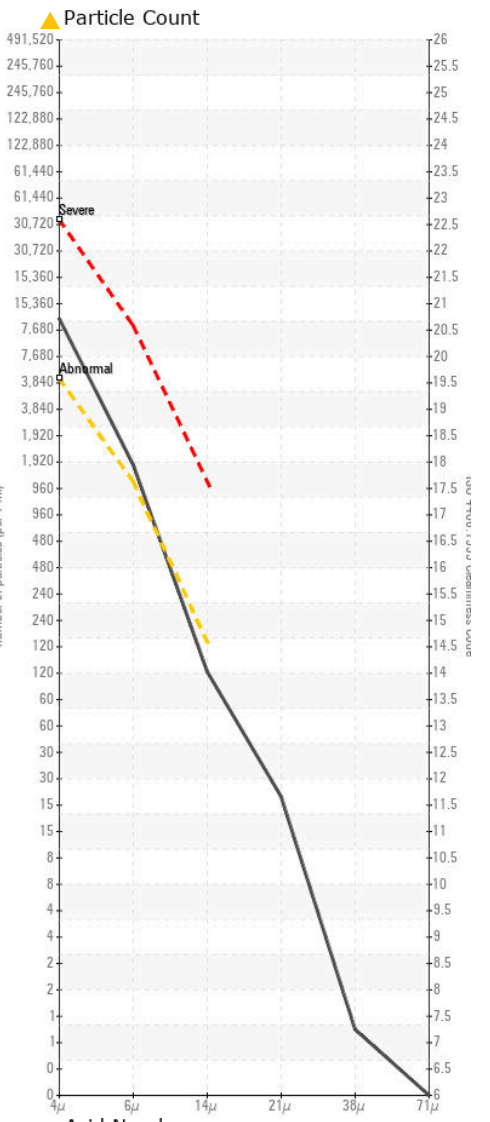
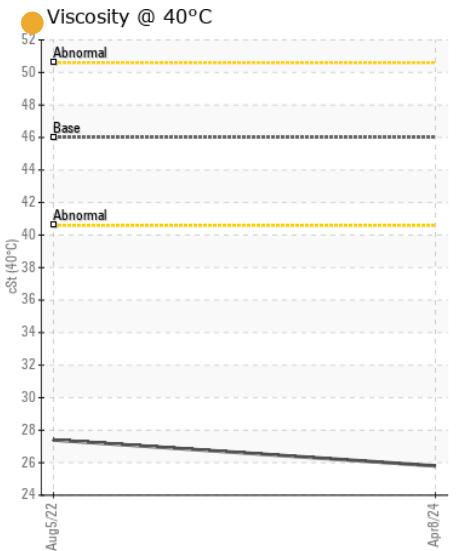
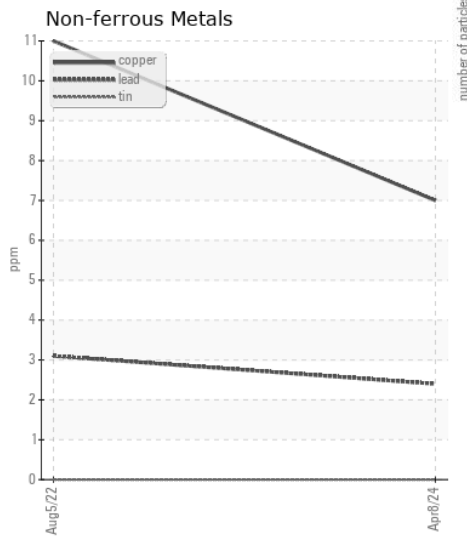
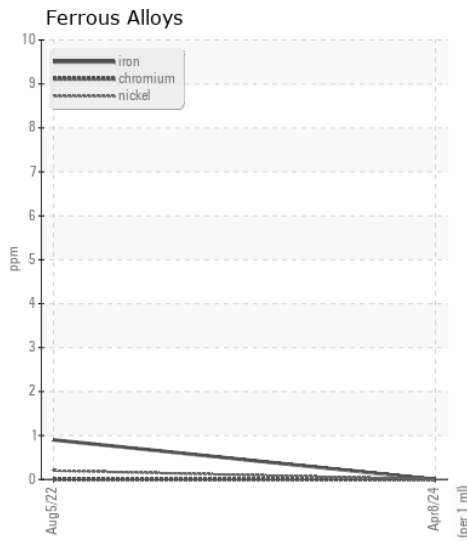
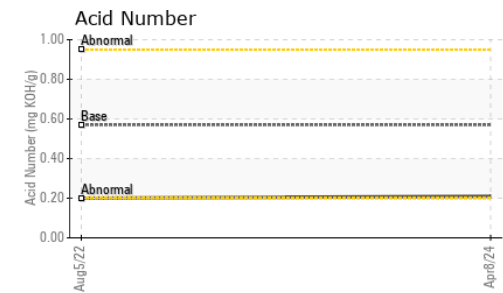
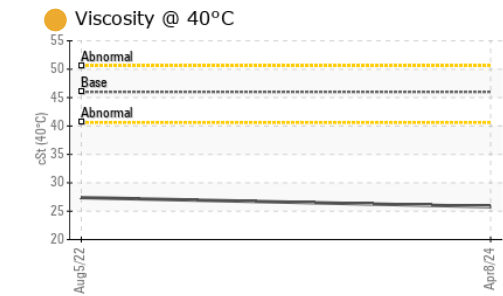
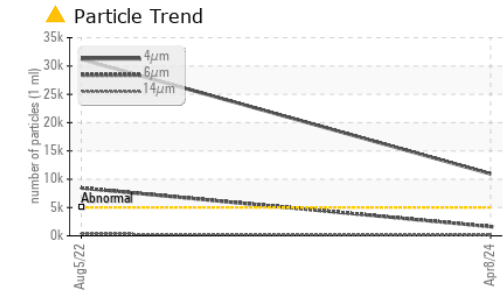
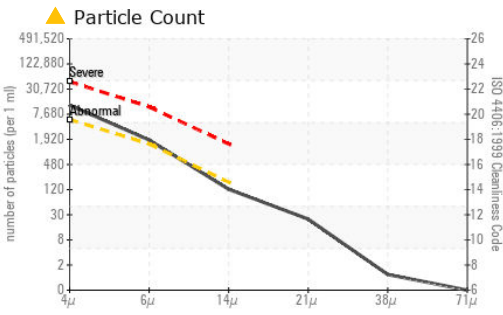
There is a high amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	<1	---
Potassium	ppm	ASTM D5185m	>20	0	0	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 10945	▲ 31190	---
Particles >6µm		ASTM D7647	>1300	● 1618	▲ 8455	---
Particles >14µm		ASTM D7647	>160	108	▲ 338	---
Particles >21µm		ASTM D7647	>40	21	● 78	---
Particles >38µm		ASTM D7647	>10	1	10	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/18/14	▲ 22/20/16	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	---

FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m	5	0	0	---
Barium	ppm	ASTM D5185m	5	0	0	---
Molybdenum	ppm	ASTM D5185m	5	0	0	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	25	2	0	---
Calcium	ppm	ASTM D5185m	200	26	10	---
Phosphorus	ppm	ASTM D5185m	300	89	80	---
Zinc	ppm	ASTM D5185m	370	116	77	---
Sulfur	ppm	ASTM D5185m	2500	749	683	---
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.21	0.20	---
Visc @ 40°C	cSt	ASTM D445	46	● 25.8	● 27.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0892950 **Received** : 15 Apr 2024
Lab Number : 06148585 **Tested** : 16 Apr 2024
Unique Number : 10978663 **Diagnosed** : 17 Apr 2024 - Don Baldrige
Test Package : CONST

BUCKNER - POCASSET
 1281 US 81
 POCASSET, OK
 US 73079
 Contact: DARIN FISHER

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)

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