



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL

Machine Id
75
Component
Hydraulic System
Fluid
{not provided} (20 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		TR0001366	TR0001242	---
Sample Date		Client Info		08 Apr 2024	14 Nov 2023	---
Machine Age	hrs	Client Info		20519	19490	---
Oil Age	hrs	Client Info		20519	19490	---
Filter Age	hrs	Client Info		20519	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	4	9	---
Chromium	ppm	ASTM D5185m	>10	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	2	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>10	2	2	---
Lead	ppm	ASTM D5185m	>10	<1	2	---
Copper	ppm	ASTM D5185m	>75	▲ 96	▲ 130	---
Tin	ppm	ASTM D5185m	>10	<1	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

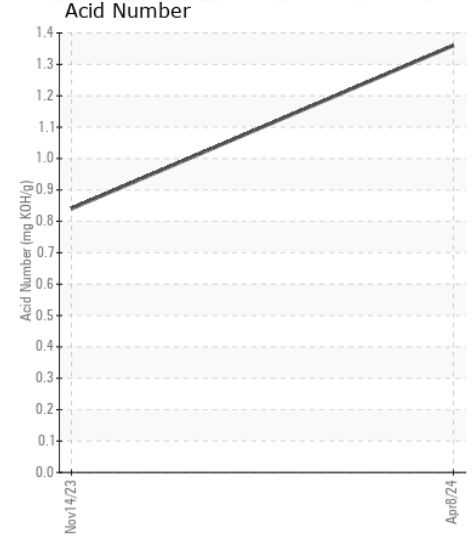
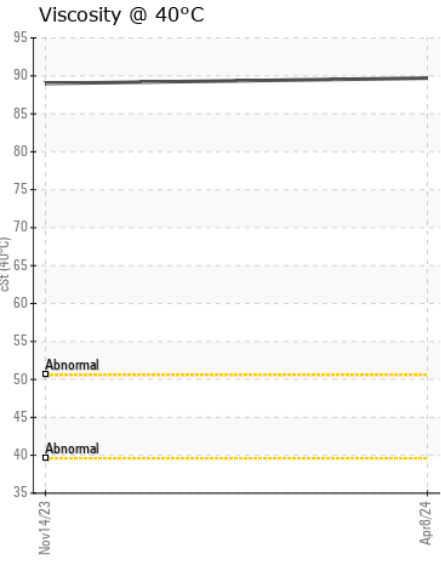
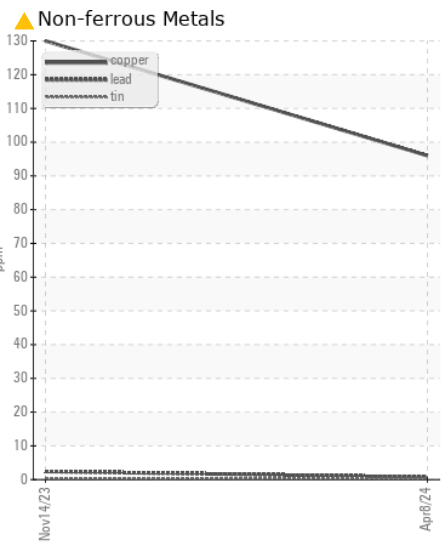
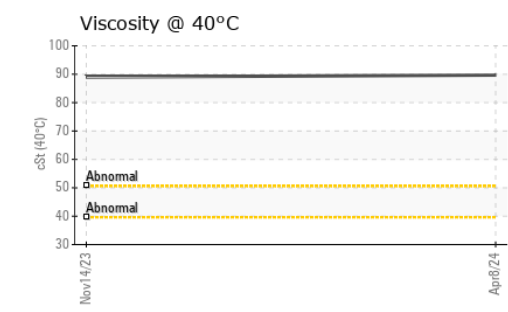
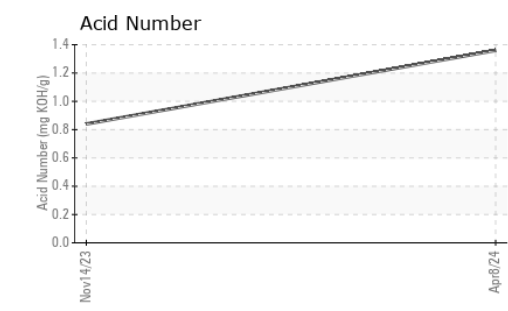
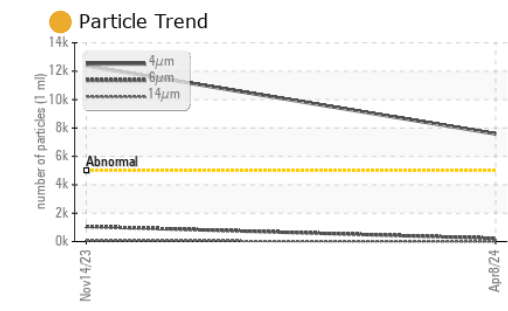
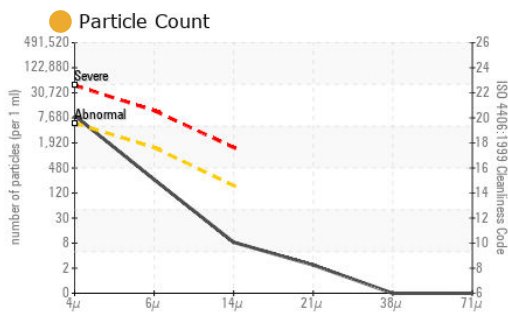
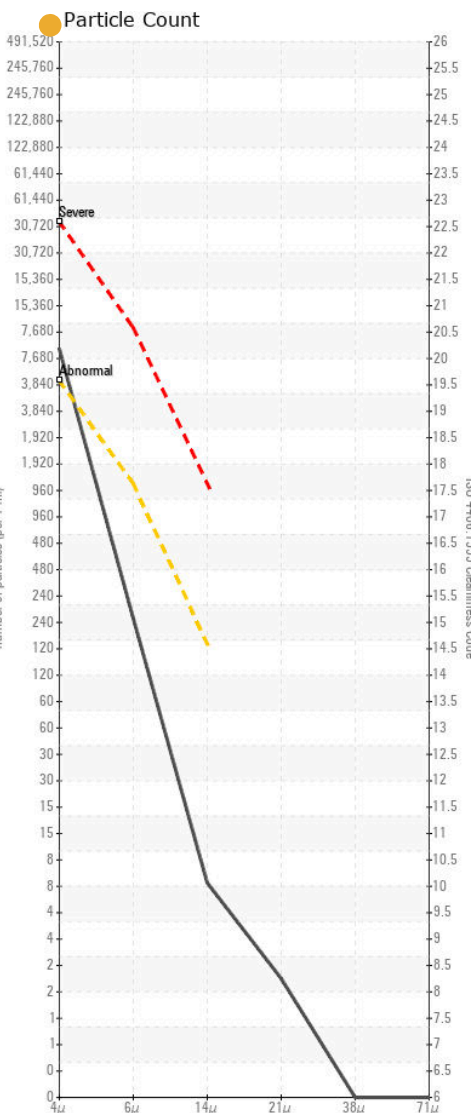
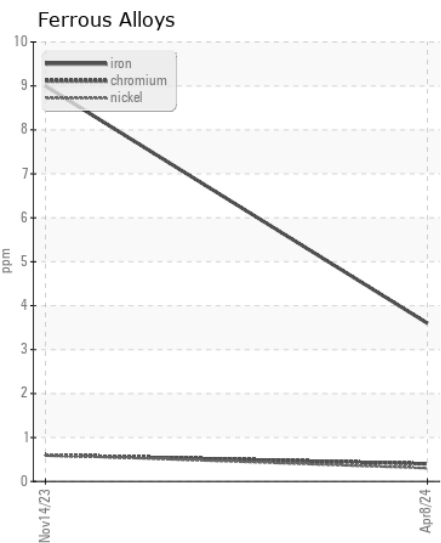
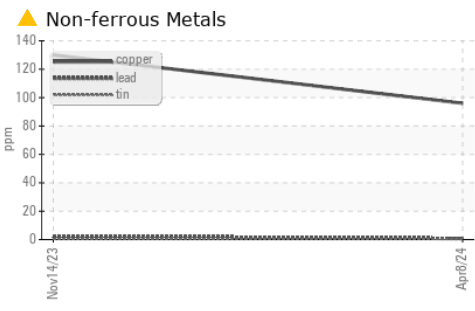
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	9	11	---
Potassium	ppm	ASTM D5185m	>20	2	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	● 7584	▲ 12367	---
Particles >6µm		ASTM D7647	>1300	223	1056	---
Particles >14µm		ASTM D7647	>160	7	62	---
Particles >21µm		ASTM D7647	>40	2	16	---
Particles >38µm		ASTM D7647	>10	0	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 20/15/10	▲ 21/17/13	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<1	3	---
Boron	ppm	ASTM D5185m		9	13	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		6	6	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		33	0	---
Calcium	ppm	ASTM D5185m		2678	2268	---
Phosphorus	ppm	ASTM D5185m		951	829	---
Zinc	ppm	ASTM D5185m		1118	989	---
Sulfur	ppm	ASTM D5185m		3907	3010	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.36	0.84	---
Visc @ 40°C	cSt	ASTM D445		89.7	89.0	---
Visc @ 100°C	cSt	ASTM D445		11.0	10.8	---
Viscosity Index (VI)	Scale	ASTM D2270		108	105	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001366 **Received** : 12 Apr 2024
Lab Number : 06148054 **Tested** : 15 Apr 2024
Unique Number : 10978132 **Diagnosed** : 16 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: KV100, VI)

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To discuss this sample report, contact Customer Service at 1-800-827-0711.

* - 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)