



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
GROVE 4306 (S/N 70530)
Component
Hydraulic System
Fluid
UTF (--- GAL)

RECOMMENDATION

Oil and 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		DC0034489	DC0022722	---
Sample Date		Client Info		29 Feb 2024	16 Sep 2022	---
Machine Age	hrs	Client Info		4845	4805	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	SEVERE	---

WEAR

Bearing and/or bushing wear is indicated.

Iron	ppm	ASTM D5185m	>20	14	▲ 32	---
Chromium	ppm	ASTM D5185m	>10	1	3	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		2	7	---
Aluminum	ppm	ASTM D5185m	>10	2	6	---
Lead	ppm	ASTM D5185m	>10	▲ 14	▲ 50	---
Copper	ppm	ASTM D5185m	>75	▲ 92	▲ 239	---
Tin	ppm	ASTM D5185m	>10	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

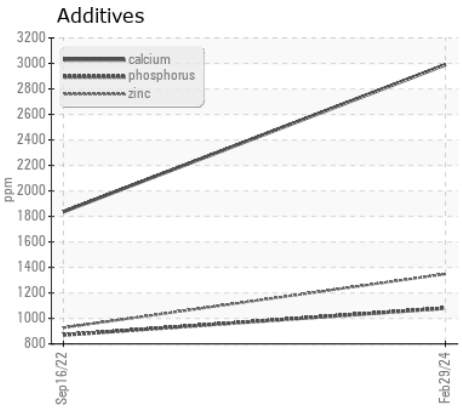
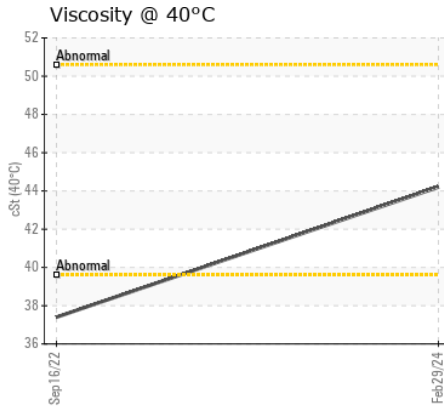
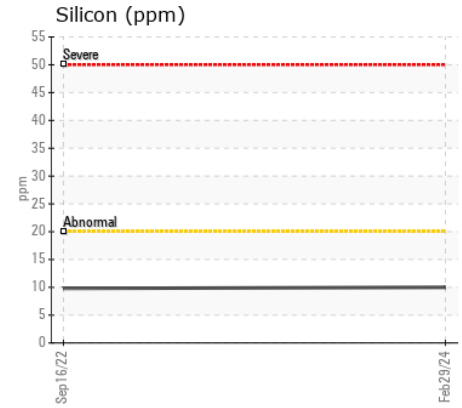
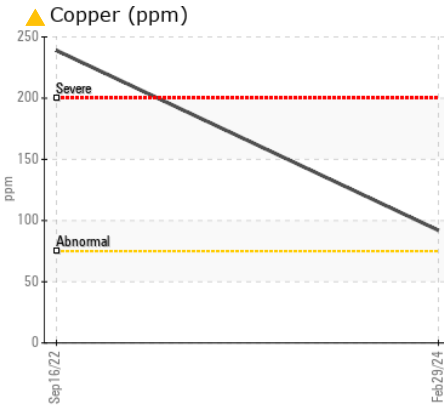
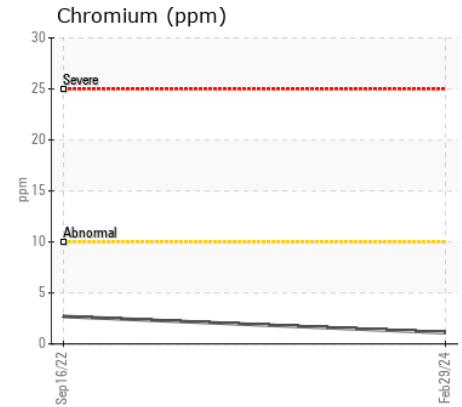
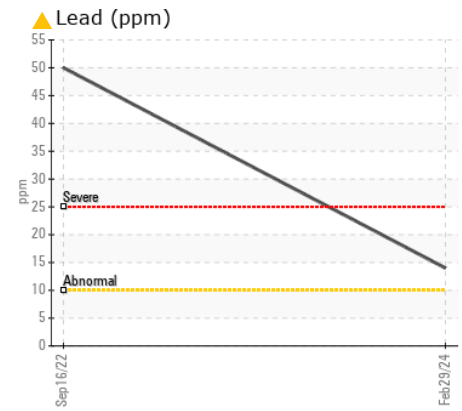
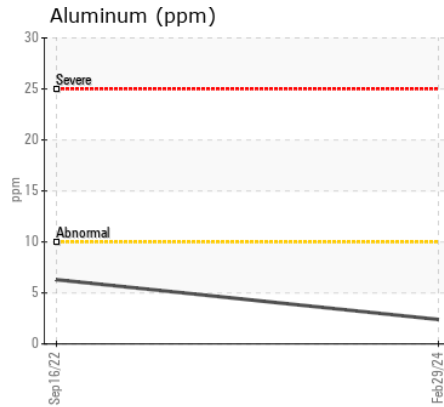
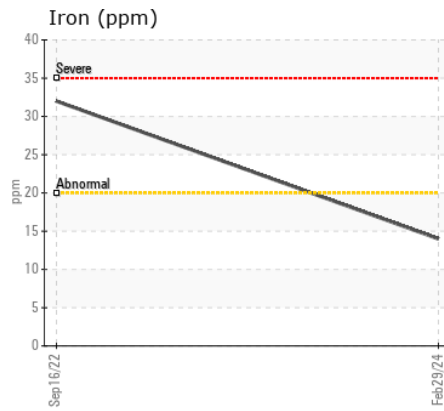
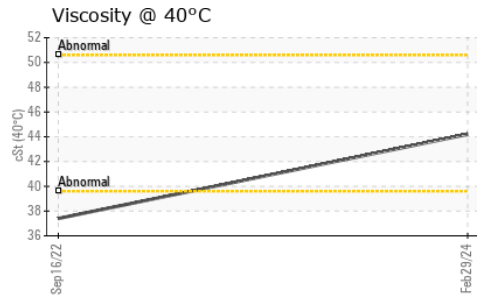
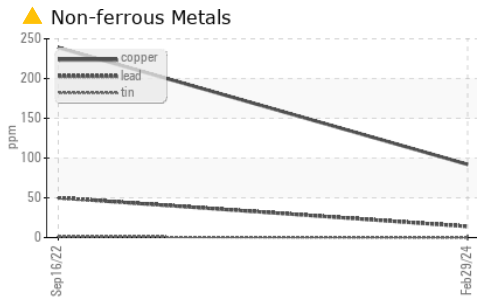
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	10	10	---
Potassium	ppm	ASTM D5185m	>20	2	1	---
Water		WC Method	>0.1	NEG	NEG	---
Silt	scalar	*Visual	NONE	LIGHT	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 condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		6	14	---
Boron	ppm	ASTM D5185m		79	29	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		25	● 59	---
Manganese	ppm	ASTM D5185m		<1	1	---
Magnesium	ppm	ASTM D5185m		64	● 92	---
Calcium	ppm	ASTM D5185m		2990	● 1837	---
Phosphorus	ppm	ASTM D5185m		1081	● 870	---
Zinc	ppm	ASTM D5185m		1348	● 927	---
Sulfur	ppm	ASTM D5185m		5320	● 5435	---
Visc @ 40°C	cSt	ASTM D445		44.2	● 37.4	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0034489 **Received** : 23 Apr 2024
Lab Number : **06158194** **Tested** : 24 Apr 2024
Unique Number : 10993617 **Diagnosed** : 25 Apr 2024 - Jonathan Hester
Test Package : MOB 1

ABERDEEN PROVING GROUND
 6721 RARITON AVENUE
 ABERDEEN, MD
 US 21005
 Contact: TONY DAVIS
 tdavis@vacranetworks.com
 T: (410)688-1725
 F:

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)