



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**GROVE 7702 (S/N 232574)**  
 Component  
**Front Differential**  
 Fluid  
**GEAR OIL SAE 85W140 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>DC0034494</b>	DC0023981	---
Sample Date		Client Info		<b>01 Apr 2024</b>	18 Oct 2022	---
Machine Age	hrs	Client Info		<b>5230</b>	4854	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>29</b>	100	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	<1	---
Lead	ppm	ASTM D5185m	>25	<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m	>100	<b>3</b>	36	---
Tin	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

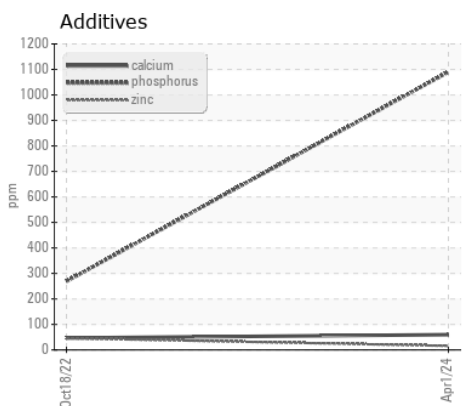
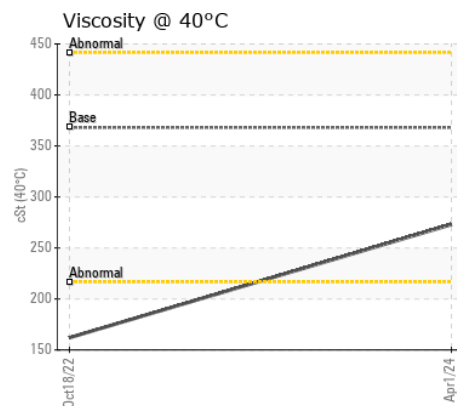
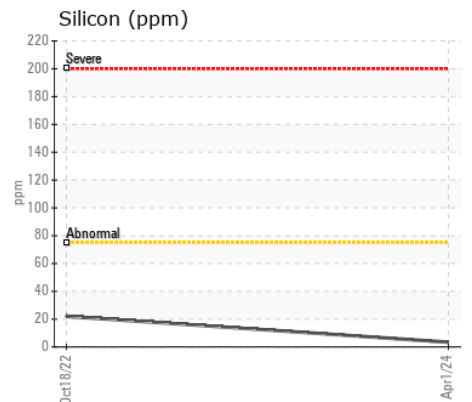
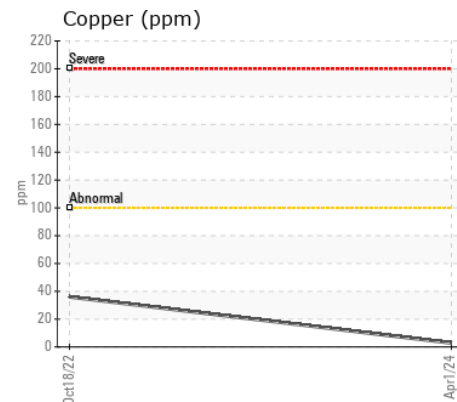
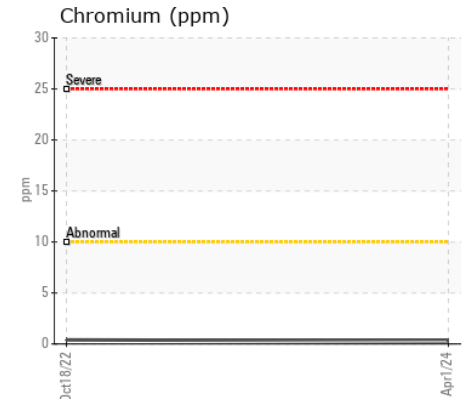
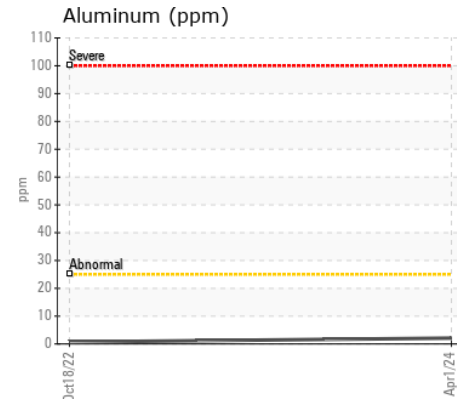
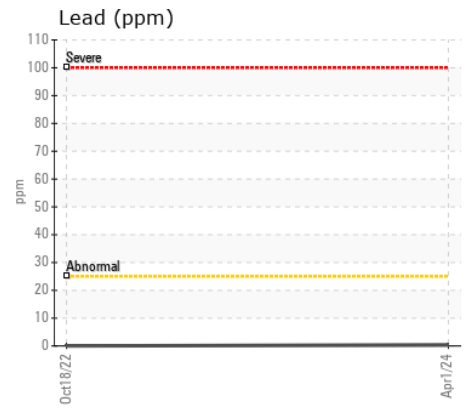
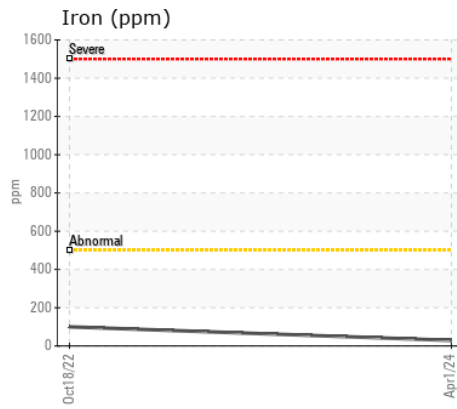
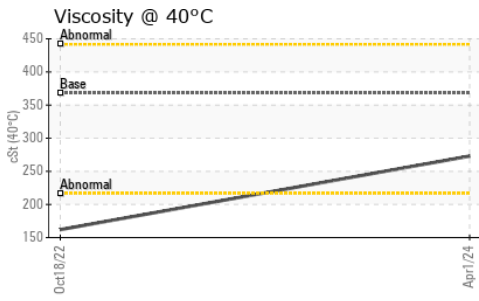
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>3</b>	22	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	16	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	NEG	---

## FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	4	---
Boron	ppm	ASTM D5185m	400	<b>61</b>	8	---
Barium	ppm	ASTM D5185m	200	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	12	<b>&lt;1</b>	2	---
Manganese	ppm	ASTM D5185m		<b>2</b>	8	---
Magnesium	ppm	ASTM D5185m	12	<b>3</b>	6	---
Calcium	ppm	ASTM D5185m	150	<b>60</b>	47	---
Phosphorus	ppm	ASTM D5185m	1650	<b>1090</b>	269	---
Zinc	ppm	ASTM D5185m	125	<b>16</b>	46	---
Sulfur	ppm	ASTM D5185m	22500	<b>19147</b>	19110	---
Visc @ 40°C	cSt	ASTM D445	368	<b>273</b>	162	---



Certificate L2367

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

**Sample No.** : DC0034494

**Lab Number** : 06158040

**Unique Number** : 10993463

**Test Package** : MOB 1

**Received** : 23 Apr 2024

**Tested** : 24 Apr 2024

**Diagnosed** : 24 Apr 2024 - Wes Davis

**ABERDEEN PROVING GROUND**

6721 RARITON AVENUE

ABERDEEN, MD

US 21005

Contact: TONY DAVIS

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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)