



OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id
GROVE 7269 (S/N 69343)
 Component
Transmission (Auto)
 Fluid
ATF (--- QTS)

RECOMMENDATION

We advise that you check all areas where dirt can enter the system. Oil and filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

WEAR

Gear wear is indicated. Clutch and/or bushing/bearing wear is indicated.

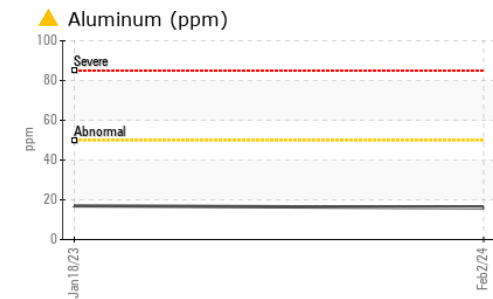
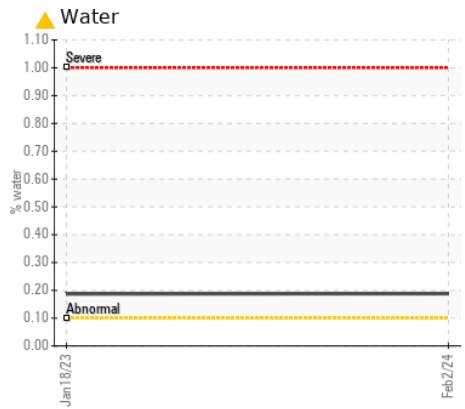
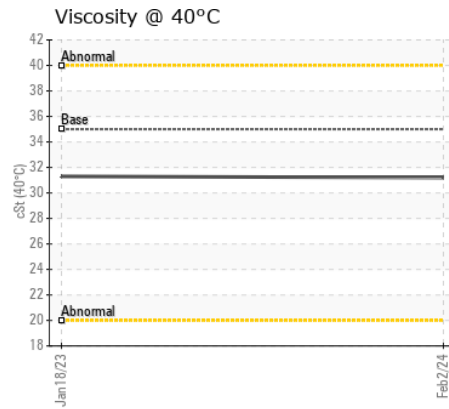
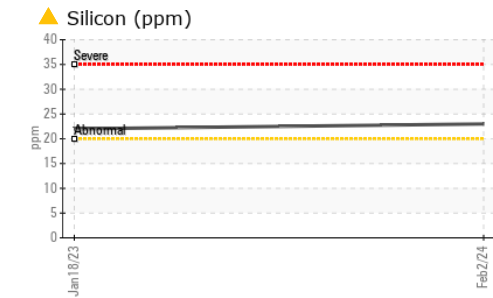
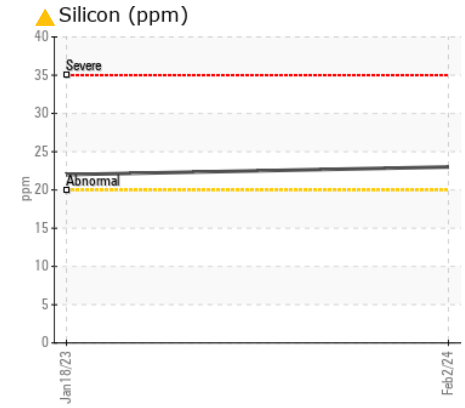
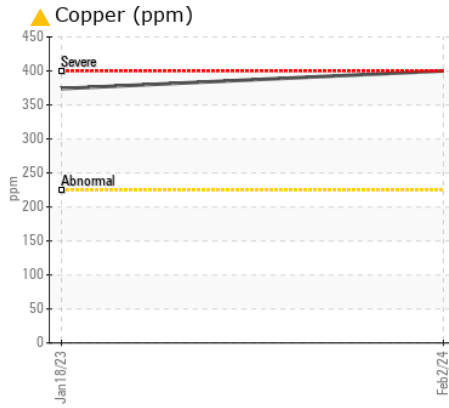
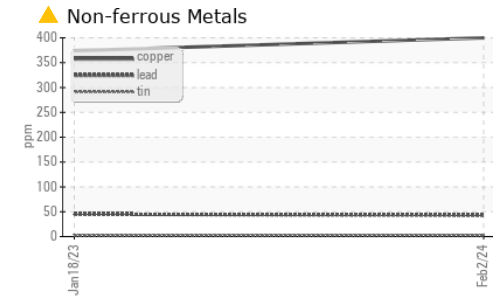
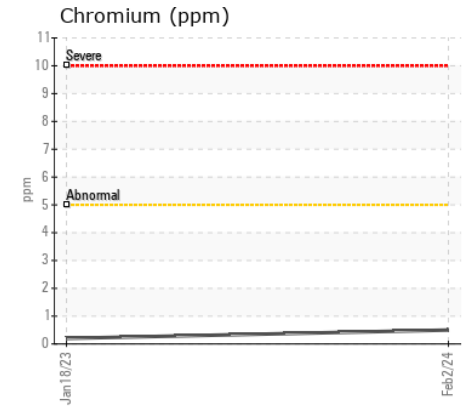
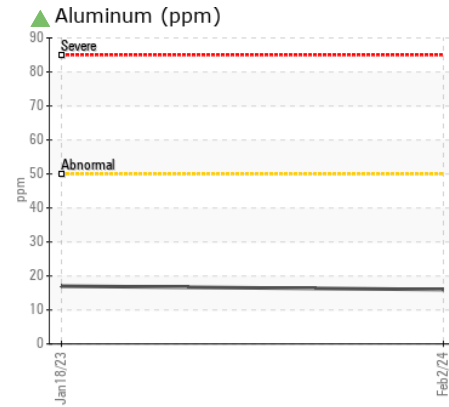
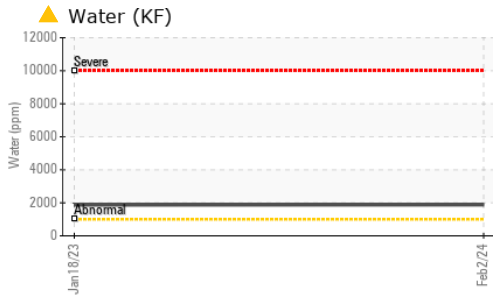
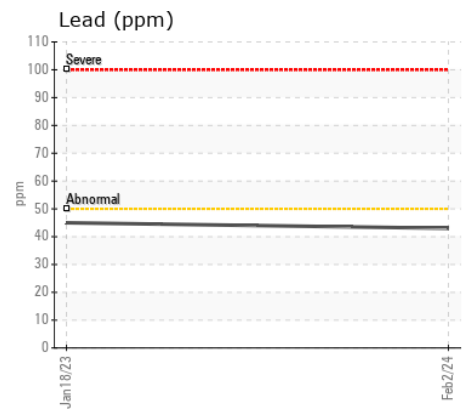
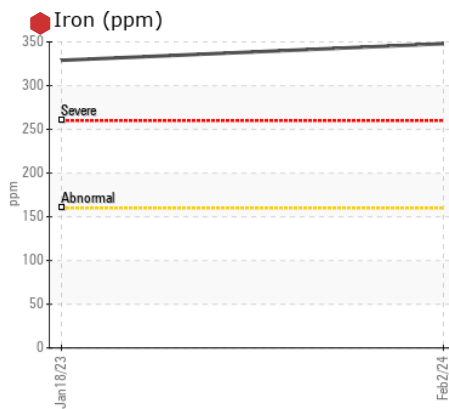
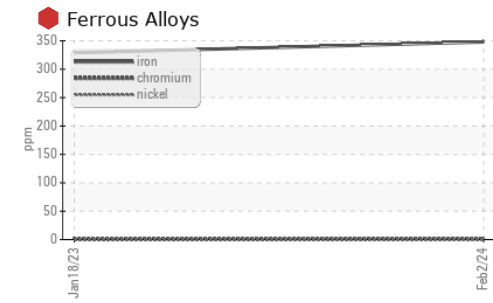
CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the fluid.

FLUID CONDITION

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		DC0032004	DC0025385	---
Sample Date		Client Info		02 Feb 2024	18 Jan 2023	---
Machine Age	hrs	Client Info		516	492	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				SEVERE	SEVERE	---
Iron	ppm	ASTM D5185m	>160	348	329	---
Chromium	ppm	ASTM D5185m	>5	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>5	<1	0	---
Aluminum	ppm	ASTM D5185m	>50	16	17	---
Lead	ppm	ASTM D5185m	>50	43	45	---
Copper	ppm	ASTM D5185m	>225	400	374	---
Tin	ppm	ASTM D5185m	>10	2	2	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---
Silicon	ppm	ASTM D5185m	>20	23	22	---
Potassium	ppm	ASTM D5185m	>20	5	3	---
Water	%	ASTM D6304	>0.1	0.188	0.187	---
ppm Water	ppm	ASTM D6304	>1000	1880	1870	---
Glycol	%	*ASTM D2982		---	0.0	---
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	0.2%	0.2%	---
Sodium	ppm	ASTM D5185m		96	93	---
Boron	ppm	ASTM D5185m		21	24	---
Barium	ppm	ASTM D5185m		6	0	---
Molybdenum	ppm	ASTM D5185m		1	<1	---
Manganese	ppm	ASTM D5185m		17	16	---
Magnesium	ppm	ASTM D5185m		14	12	---
Calcium	ppm	ASTM D5185m		61	54	---
Phosphorus	ppm	ASTM D5185m		138	180	---
Zinc	ppm	ASTM D5185m		293	294	---
Sulfur	ppm	ASTM D5185m		865	559	---
Visc @ 40°C	cSt	ASTM D445	35.0	31.2	31.3	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : DC0032004 **Received** : 23 Feb 2024
Lab Number : 06099493 **Tested** : 27 Feb 2024
Unique Number : 10897723 **Diagnosed** : 27 Feb 2024 - Don Baldrige
Test Package : MOB 1 (Additional Tests: Glycol, KF)

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)