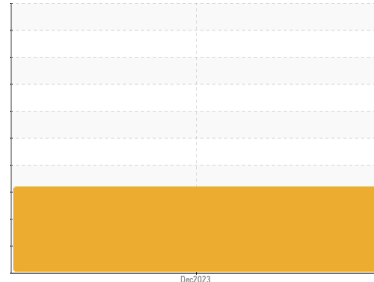




PROBLEM SUMMARY

Sample Rating Trend

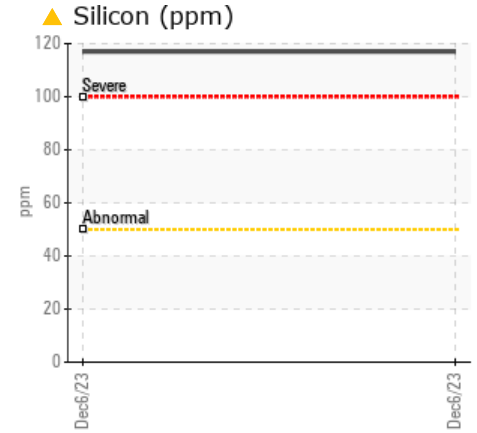
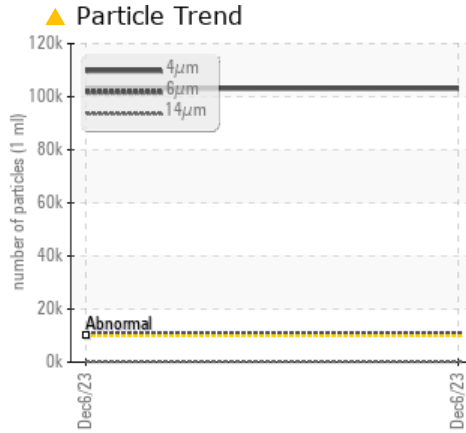
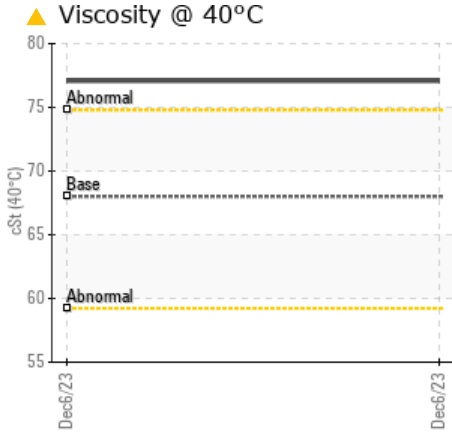


DIRT



Area
RNG
 Machine Id
C251A Vacuum Compressor
 Component
Screw Compressor
 Fluid
COMPRESSOR OIL ISO 68 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL	---	---
Silicon ppm	ASTM D5185m >50	▲ 117	---
Particles >4µm	ASTM D7647 >10000	▲ 103115	---
Particles >6µm	ASTM D7647 >2500	▲ 10334	---
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 24/21/15	---
Visc @ 40°C	cSt ASTM D445 68	▲ 77.08	---

Customer Id: GEVDOO
 Sample No.: WC06027699
 Lab Number: 06027699
 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Angela Borella +1 800-237-1369
angela.borella@wearcheckusa.com

To change component or sample information:
 Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

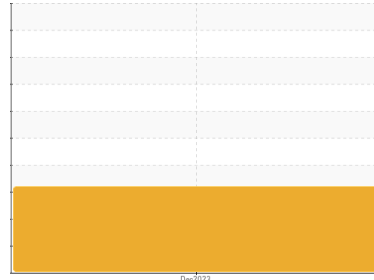
Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area
RNG
 Machine Id
C251A Vacuum Compressor
 Component
Screw Compressor
 Fluid
COMPRESSOR OIL ISO 68 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. No water, or moisture detected in the sample.

▲ Fluid Condition

The oil viscosity is higher than normal. Confirm oil type.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC06027699	---	---
Sample Date	Client Info	06 Dec 2023	---	---
Machine Age	hrs Client Info	0	---	---
Oil Age	hrs Client Info	0	---	---
Oil Changed	Client Info	N/A	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>60	8	---	---
Chromium ppm ASTM D5185m	>4	<1	---	---
Nickel ppm ASTM D5185m		<1	---	---
Titanium ppm ASTM D5185m		0	---	---
Silver ppm ASTM D5185m		0	---	---
Aluminum ppm ASTM D5185m	>5	<1	---	---
Lead ppm ASTM D5185m	>10	0	---	---
Copper ppm ASTM D5185m	>30	<1	---	---
Tin ppm ASTM D5185m	>15	0	---	---
Vanadium ppm ASTM D5185m		0	---	---
Cadmium ppm ASTM D5185m		0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m	5	0	---	---
Barium ppm ASTM D5185m	5	0	---	---
Molybdenum ppm ASTM D5185m	5	<1	---	---
Manganese ppm ASTM D5185m		0	---	---
Magnesium ppm ASTM D5185m	5	<1	---	---
Calcium ppm ASTM D5185m	5	9	---	---
Phosphorus ppm ASTM D5185m	150	70	---	---
Zinc ppm ASTM D5185m	5	0	---	---
Sulfur ppm ASTM D5185m	5000	1041	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>50	▲ 117	---	---
Sodium ppm ASTM D5185m		2	---	---
Potassium ppm ASTM D5185m	>20	<1	---	---
Water % ASTM D6304	>0.1	NEG	---	---

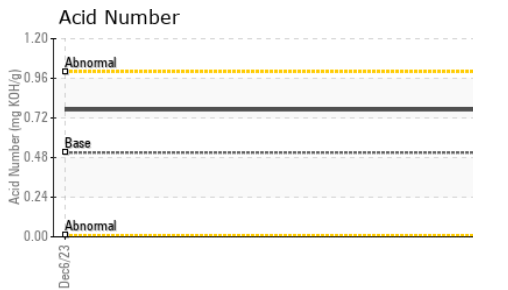
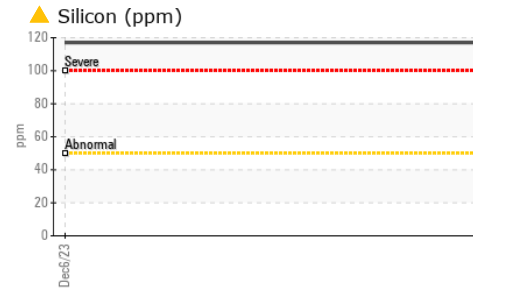
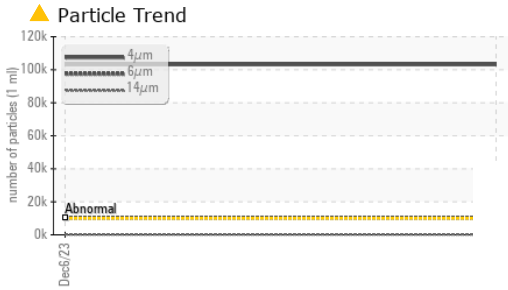
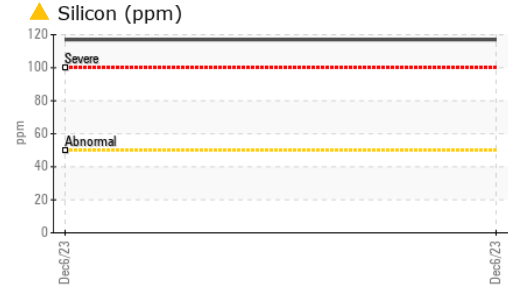
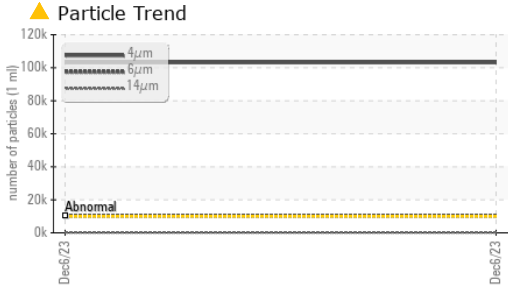
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	▲ 103115	---	---
Particles >6µm ASTM D7647	>2500	▲ 10334	---	---
Particles >14µm ASTM D7647	>320	219	---	---
Particles >21µm ASTM D7647	>80	39	---	---
Particles >38µm ASTM D7647	>20	1	---	---
Particles >71µm ASTM D7647	>4	0	---	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	▲ 24/21/15	---	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D8045	0.51	0.77	---	---

OIL ANALYSIS REPORT



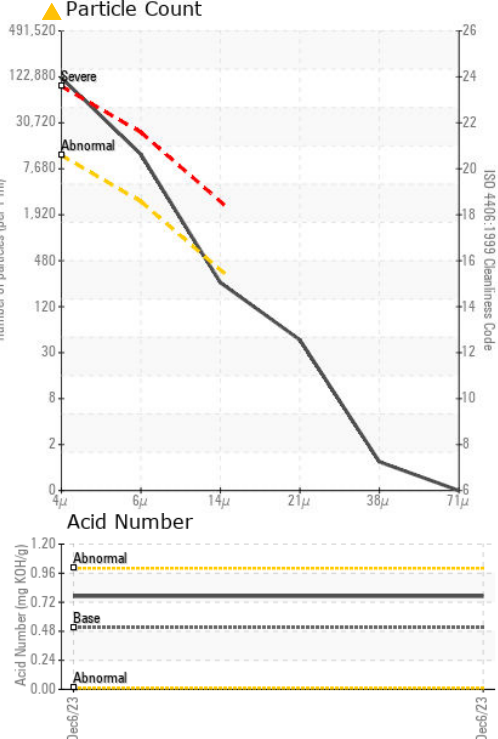
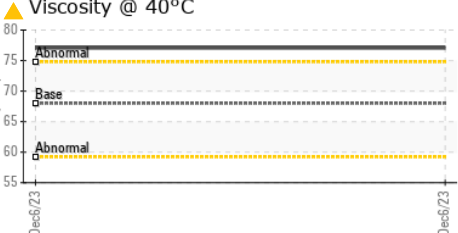
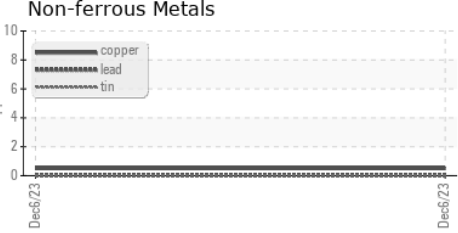
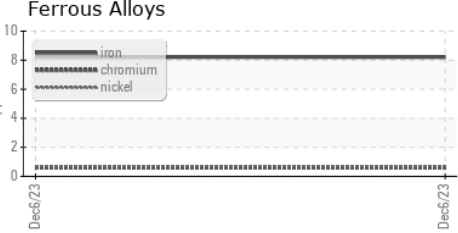
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	▲ 77.08	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color		no image	no image
Bottom		no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC06027699 **Received** : 07 Dec 2023
Lab Number : 06027699 **Diagnosed** : 12 Dec 2023
Unique Number : 10777490 **Diagnostician** : Angela Borella
Test Package : PLANT

GEVO Inc.
 2498 250th Street
 Doon, IA
 US 51235
 Contact: Service Manager

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)