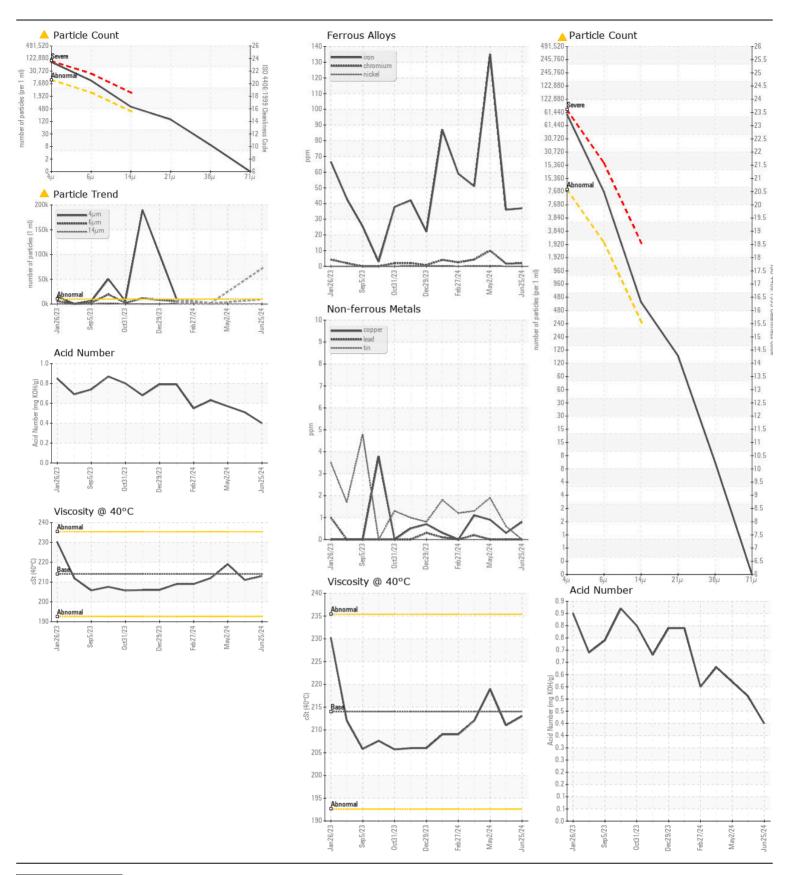
**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL ABNORMAL NORMAL** 

Area
RRJ
Machine Id

## B-01-402 Biogas Blower Non-Drive End Component Non-Drive End Compressor

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0886354	TWC0000004	WC0886364
We recommend you service the filters on this component if applicable.  Resample at the next service interval to monitor.	Sample Date		Client Info		25 Jun 2024	31 May 2024	02 May 202
	Machine Age	hrs	Client Info		0	0	0
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
VEAR	Iron	ppm	ASTM D5185m	>50	37	36	<u> </u>
	Chromium	ppm	ASTM D5185m	>10	2	2	10
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m	>25	<1	<1	2
	Lead	ppm	ASTM D5185m	>25	0	0	0
	Copper	ppm	ASTM D5185m	>50	<1	<1	<1
	Tin	ppm	ASTM D5185m	>15	0	<1	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	8	6	6
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
There is a high amount of particulates present in the oil.	Water		WC Method	>0.1	NEG	NEG	NEG
	Particles >4μm		ASTM D7647	>10000	<b>1499</b>		
	Particles >6µm		ASTM D7647	>2500	<b>9339</b>		
	Particles >14μm		ASTM D7647	>320	<b>527</b>		
	Particles >21μm		ASTM D7647	>80	<b>129</b>		
	Particles >38μm		ASTM D7647	>20	8		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 23/20/16		
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	LIGHT	▲ MODER	▲ MODEI
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	HAZY
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.1	NEG	0.2%	▲ 0.2%
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	0
	Boron	ppm	ASTM D5185m		0	0	<1
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	<1	0
	Molybdenum	ppm	ASTM D5185m		0	3	<1
	Manganese	ppm	ASTM D5185m		<1	<1	1
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		0	2	4
	Phosphorus	ppm	ASTM D5185m		557	654	663
	Zinc	ppm	ASTM D5185m		3	3	9
	Sulfur	ppm	ASTM D5185m		719	699	954
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.40	0.51	0.57
	Visc @ 40°C	cSt	ASTM D445			211	219





Certificate L2367

Laboratory

Sample No. Lab Number

: WC0886354 : 06226200 Unique Number : 11109693 Test Package : PLANT

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 02 Jul 2024 **Tested** 

Diagnosed

: 03 Jul 2024 : 03 Jul 2024 - Doug Bogart 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)

T: F:

**GEVO Inc.**