WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

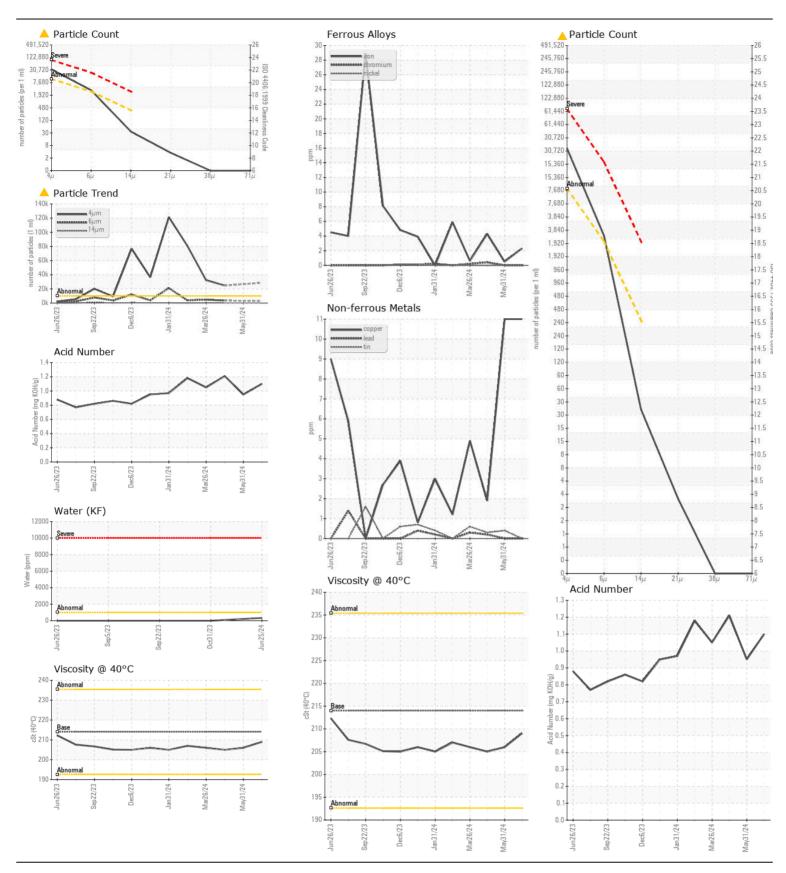
NORMAL

Area
RRJ
Machine Id

## B-01-402 Biogas Blower Drive End

**Drive End Compressor** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number	OOW	Client Info	Ennighton.	WC0886355		WC0886361
	Sample Date		Client Info		25 Jun 2024	31 May 2024	02 May 2024
	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	ABNORMAL
WEAR						,	
WEAR	Iron	ppm	ASTM D5185m		2	<1	4
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>10	0	0	<1
	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	0.5	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	2
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		11	11	2
	Tin	ppm		>15	0	<1	<1
	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	6	8	8
	Potassium	ppm	ASTM D5185m	>20	0	<1	<1
There is a high amount of silt (particulates < 14 microns in size) present in the oil.	Water	%	ASTM D6304	>0.1	0.033		
	ppm Water	ppm	ASTM D6304	>1000	330		
	Particles >4µm		ASTM D7647	>10000	<b>28616</b>		<u></u> 24728
	Particles >6µm		ASTM D7647	>2500	<b>2906</b>		3397
	Particles >14μm		ASTM D7647	>320	31		185
	Particles >21μm		ASTM D7647	>80	3		36
	Particles >38μm		ASTM D7647	>20	0		1
	Particles >71μm		ASTM D7647	>4	0		0
	Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>22/19/12</u>		<u>^</u> 22/19/1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water	scalar	*Visual	>0.1	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	<1	0
	Boron	ppm	ASTM D5185m		0	0	0
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	0	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		0	0	<1
	Calcium	ppm	ASTM D5185m		0	2	3
	Phosphorus	ppm	ASTM D5185m		668	701	715
	Zinc	ppm	ASTM D5185m		6	3	3
	Sulfur	ppm	ASTM D5185m		714	706	731
	Acid Number (AN)	mg KOH/g	ASTM D8045		1.10	0.95	1.21
	Visc @ 40°C	cSt	ASTM D445	011	209	206	205





Certificate L2367

Laboratory Sample No. Lab Number

: 06226196

Test Package : PLANT

: WC0886355 Unique Number: 11109689

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

: 09 Jul 2024 : 09 Jul 2024 - Jonathan Hester Diagnosed

**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)

T: F: