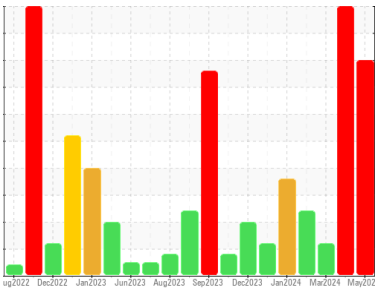
PROBLEM SUMMARY

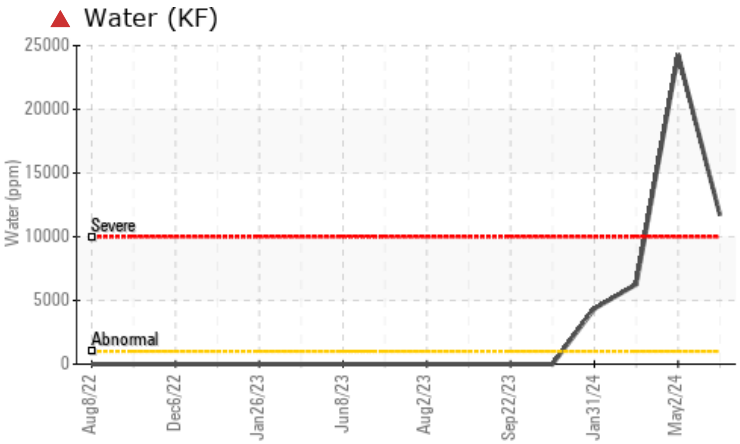
Sample Rating Trend



WATER

Area
MVD
Machine Id
B-03-411 Pressure Displacement Blower Non-Drive End
Component
Non-Drive End Compressor
Fluid
GARDNER DENVER AEON PD (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	SEVERE	ABNORMAL
Water	%	ASTM D6304	>0.1	▲ **1.17**	▲ 2.43	---
ppm Water	ppm	ASTM D6304	>1000	▲ **11700**	▲ 24300	---
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ **5.0**	▲ 2.0	NEG

Customer Id: GEVDOO
Sample No.: WC0886360
Lab Number: 06200123
Test Package: PLANT

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

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

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WATER

02 May 2024 Diag: Don Baldridge

We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample.The iron level is abnormal. There is a moderate amount of visible silt present in the sample. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report

ISO

26 Mar 2024 Diag: Jonathan Hester

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

WATER

27 Feb 2024 Diag: Jonathan Hester

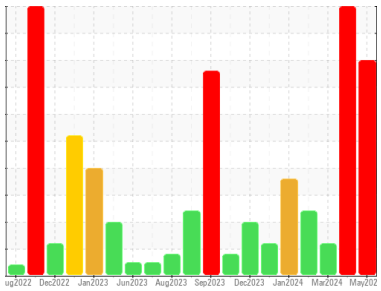
We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.The iron level is abnormal. All other component wear rates are normal. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Area
MVD
Machine Id
B-03-411 Pressure Displacement Blower Non-Drive End
Component
Non-Drive End Compressor
Fluid
GARDNER DENVER AEON PD (--- GAL)

Sample Rating Trend



WATER

DIAGNOSIS

Recommendation
We advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. There is too much water present in this sample to perform a particle count.

Wear
All component wear rates are normal.

Contamination
There is a high concentration of water present in the oil. Excessive free water present.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0886360**	WC0886363	WC0886367
Sample Date		Client Info		**31 May 2024**	02 May 2024	26 Mar 2024
Machine Age	hrs	Client Info		**0**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**SEVERE**	SEVERE	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**12**	▲ 72	42
Chromium	ppm	ASTM D5185m	>10	**<1**	8	5
Nickel	ppm	ASTM D5185m		**0**	<1	<1
Titanium	ppm	ASTM D5185m		**0**	<1	<1
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	2	3
Lead	ppm	ASTM D5185m	>25	**0**	0	<1
Copper	ppm	ASTM D5185m	>50	**<1**	2	2
Tin	ppm	ASTM D5185m	>15	**2**	7	6
Vanadium	ppm	ASTM D5185m		**0**	0	<1
Cadmium	ppm	ASTM D5185m		**0**	<1	<1

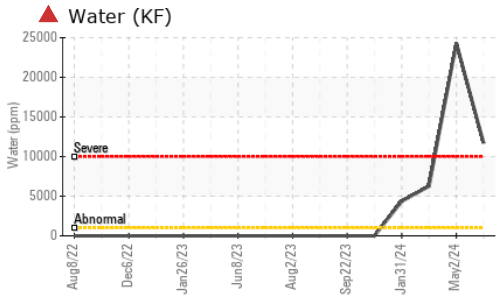
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	<1
Molybdenum	ppm	ASTM D5185m		**0**	2	<1
Manganese	ppm	ASTM D5185m		**<1**	<1	<1
Magnesium	ppm	ASTM D5185m		**0**	<1	<1
Calcium	ppm	ASTM D5185m		**2**	4	4
Phosphorus	ppm	ASTM D5185m		**617**	600	615
Zinc	ppm	ASTM D5185m		**12**	14	8
Sulfur	ppm	ASTM D5185m		**697**	817	675

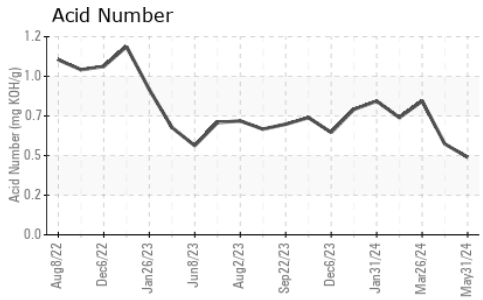
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**4**	3	4
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**2**	<1	<1
Water	%	ASTM D6304	>0.1	▲ **1.17**	▲ 2.43	---
ppm Water	ppm	ASTM D6304	>1000	▲ **11700**	▲ 24300	---

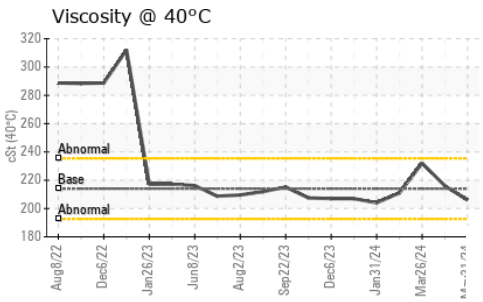
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	---	▲ 214771
Particles >6µm		ASTM D7647	>2500	**---**	---	▲ 45469
Particles >14µm		ASTM D7647	>320	**---**	---	298
Particles >21µm		ASTM D7647	>80	**---**	---	33
Particles >38µm		ASTM D7647	>20	**---**	---	0
Particles >71µm		ASTM D7647	>4	**---**	---	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**---**	---	▲ 25/23/15

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.47**	0.55	0.81

OIL ANALYSIS REPORT





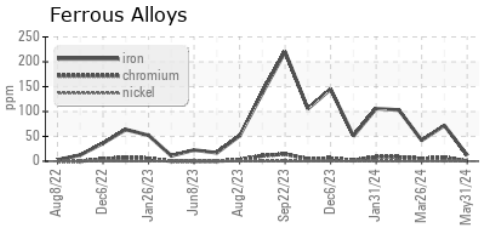


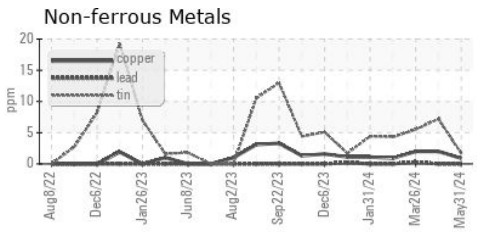
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	● HAZY	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ **0.2%**	▲ 0.2%	NEG
Free Water	scalar	*Visual		▲ **5.0**	▲ 2.0	NEG

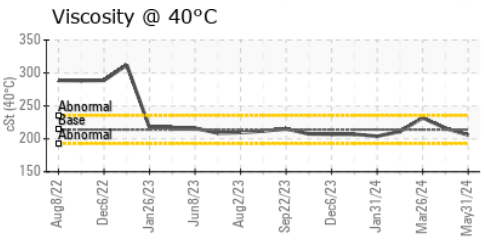
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	214	**206**	216	232

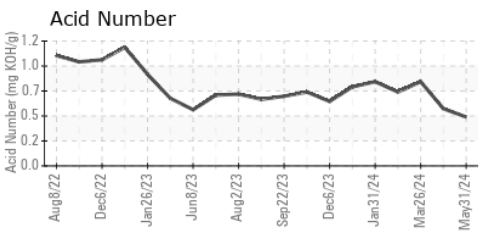
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886360
Lab Number : 06200123
Unique Number : 11062246
Test Package : PLANT

Received : 05 Jun 2024
Tested : 07 Jun 2024
Diagnosed : 07 Jun 2024 - Don Baldridge

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