PLANT WEAR CHECK

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

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

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

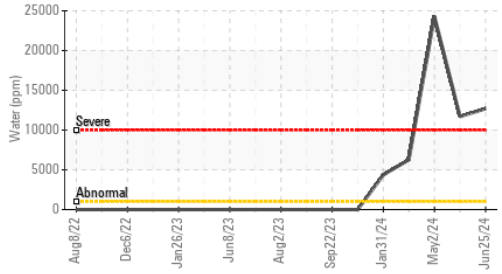
There is a high amount of particulates present in the oil. There is a high concentration of water present in the oil.

FLUID CONDITION

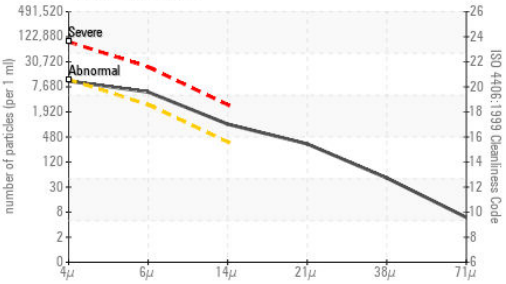
The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0886352	WC0886360	WC0886363
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				SEVERE	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>50	34	12	▲ 72
Chromium	ppm	ASTM D5185m	>10	2	<1	8
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	0	2
Lead	ppm	ASTM D5185m	>25	0	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	2
Tin	ppm	ASTM D5185m	>15	1	2	7
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>25	5	4	3
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>0.1	▲ 1.27	▲ 1.17	▲ 2.43
ppm Water	ppm	ASTM D6304	>1000	▲ 12700	▲ 11700	▲ 24300
Particles >4µm		ASTM D7647	>10000	9213	---	---
Particles >6µm		ASTM D7647	>2500	▲ 5019	---	---
Particles >14µm		ASTM D7647	>320	▲ 854	---	---
Particles >21µm		ASTM D7647	>80	▲ 288	---	---
Particles >38µm		ASTM D7647	>20	▲ 44	---	---
Particles >71µm		ASTM D7647	>4	▲ 5	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ 20/20/17	---	---
Silt	scalar	*Visual	NONE	NONE	NONE	▲ MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	● HAZY
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	▲ 0.2%	▲ 0.2%	▲ 0.2%
Sodium	ppm	ASTM D5185m		1	0	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	2
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		589	617	600
Zinc	ppm	ASTM D5185m		27	12	14
Sulfur	ppm	ASTM D5185m		713	697	817
Acid Number (AN)	mg KOH/g	ASTM D8045		0.52	0.47	0.55
Visc @ 40°C	cSt	ASTM D445	214	209	206	216

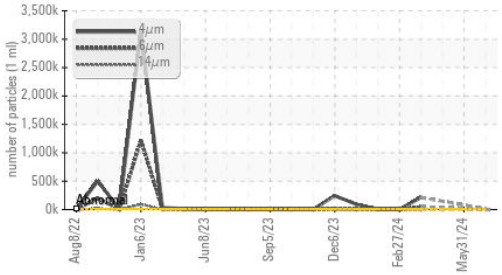
Water (KF)



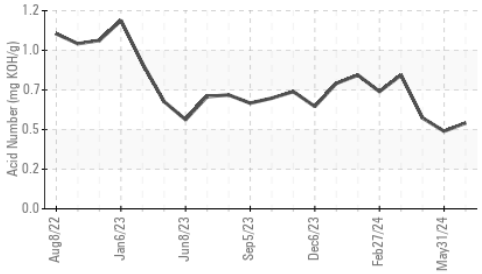
Particle Count



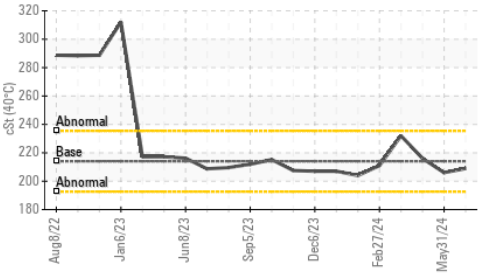
Particle Trend



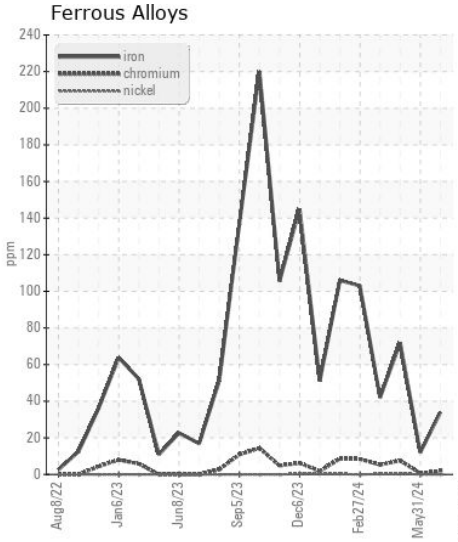
Acid Number



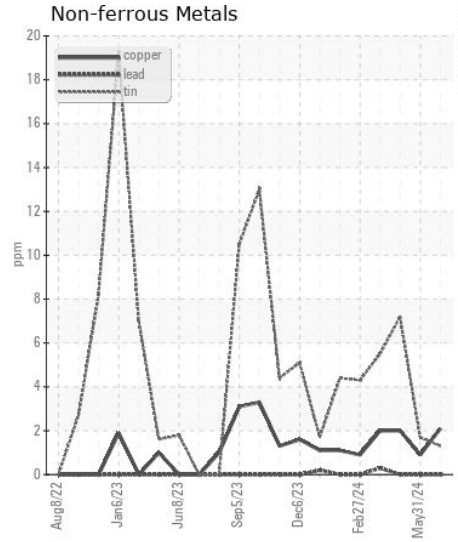
Viscosity @ 40°C



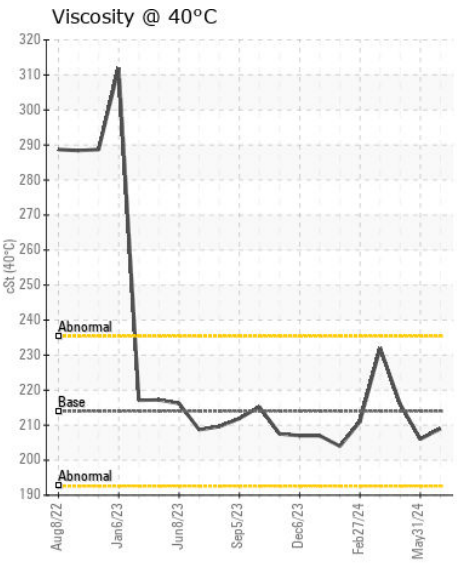
Ferrous Alloys



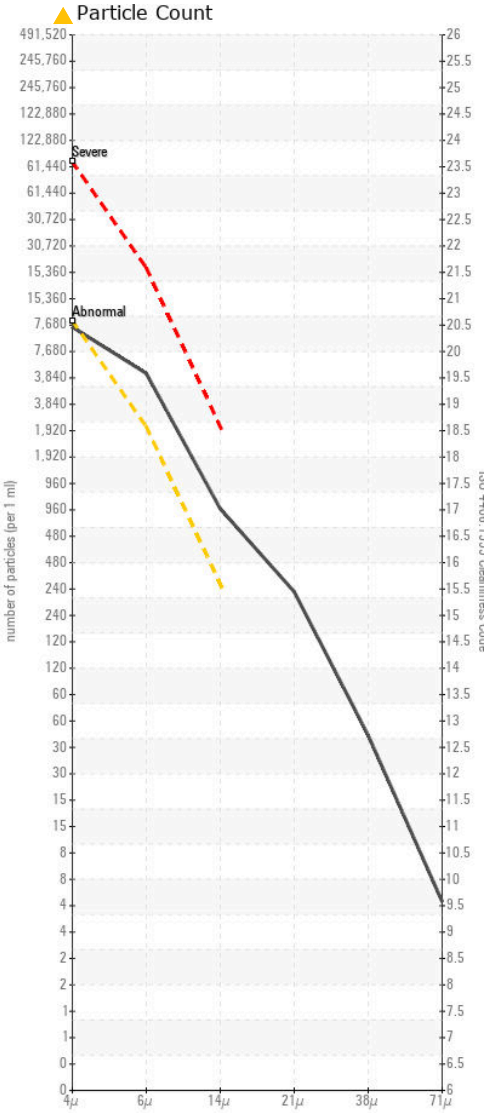
Non-ferrous Metals



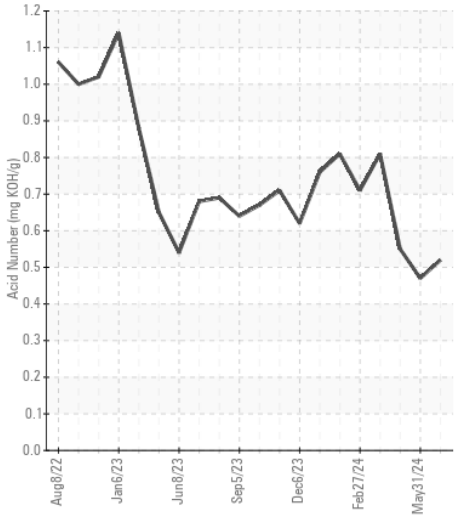
Viscosity @ 40°C



Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0886352
Lab Number : 06226197
Unique Number : 11109690
Test Package : PLANT

Received : 02 Jul 2024
Tested : 09 Jul 2024
Diagnosed : 09 Jul 2024 - Jonathan Hester

Certificate L2367

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)