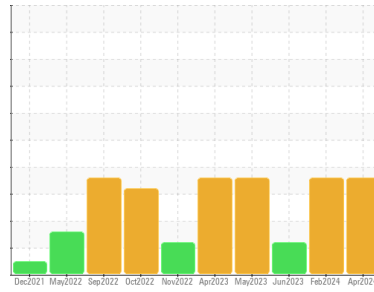




PROBLEM SUMMARY

Sample Rating Trend

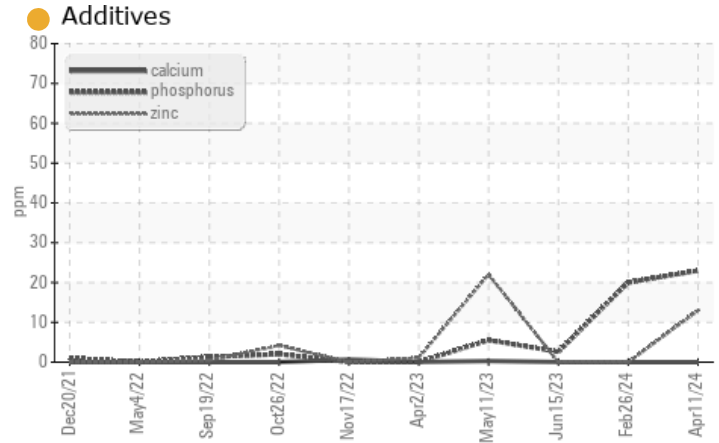
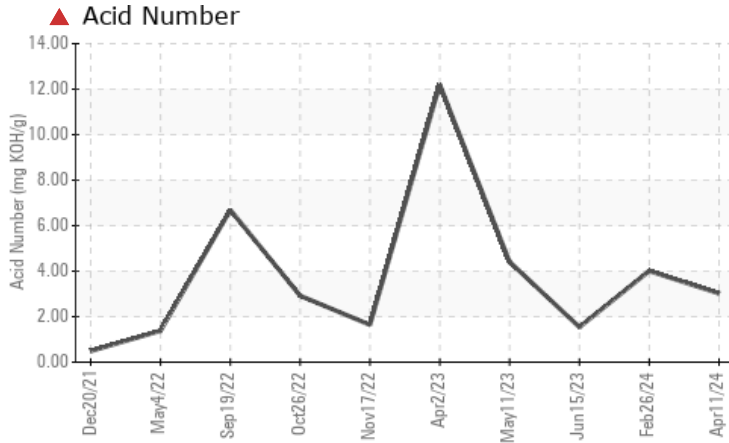


DEGRADATION



Machine Id
GARDNER DENVER 10 (S/N S618269)
 Component
Compressor
 Fluid
USPI COMP CLEAN II (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	SEVERE	ATTENTION
Acid Number (AN)	mg KOH/g ASTM D8045	▲ 3.02	▲ 4.01	● 1.54

Customer Id: CARFORCO
 Sample No.: USPM36680
 Lab Number: 06147351
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Doug Bogart +1 (800)237-1369 x4016
dougb@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 Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.

HISTORICAL DIAGNOSIS

DEGRADATION



26 Feb 2024 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. An increase in the phosphorus level is noted. Confirmed.

[view report](#)



DEGRADATION



15 Jun 2023 Diag: Doug Bogart

The oil is near the end of its useful service life and we recommend schedule an oil change. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is approaching the top-end of the recommended limit. Confirmed.

[view report](#)



DEGRADATION



11 May 2023 Diag: Doug Bogart

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is above the recommended limit. The oil viscosity is higher than normal. Confirmed.

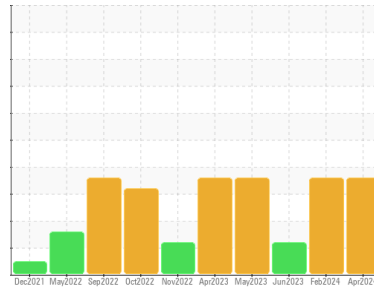
[view report](#)





OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id
GARDNER DENVER 10 (S/N S618269)
 Component
Compressor
 Fluid
USPI COMP CLEAN II (--- GAL)

DIAGNOSIS

Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

The AN level is above the recommended limit. Phosphorus level is noted. Confirmed.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		USPM36680	USPM30144	USPM27121
Sample Date	Client Info		11 Apr 2024	26 Feb 2024	15 Jun 2023
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	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	2	<1	<1
Chromium	ppm	ASTM D5185m >10	<1	0	0
Nickel	ppm	ASTM D5185m	<1	0	<1
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	1	1	1
Lead	ppm	ASTM D5185m >25	1	2	<1
Copper	ppm	ASTM D5185m >50	4	2	1
Tin	ppm	ASTM D5185m >15	1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	1	0	0

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	<1	0	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	<1	0	<1
Calcium	ppm	ASTM D5185m	0	0	0
Phosphorus	ppm	ASTM D5185m	23	20	3
Zinc	ppm	ASTM D5185m	13	0	0
Sulfur	ppm	ASTM D5185m	0	0	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	<1	0
Sodium	ppm	ASTM D5185m	<1	2	<1
Potassium	ppm	ASTM D5185m >20	1	0	<1
Water	%	ASTM D6304 >0.1	0.034	0.026	0.064
ppm Water	ppm	ASTM D6304 >1000	340	266	644.3

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	496	427	178
Particles >6µm	ASTM D7647	>2500	105	106	50
Particles >14µm	ASTM D7647	>320	14	8	6
Particles >21µm	ASTM D7647	>80	4	4	1
Particles >38µm	ASTM D7647	>20	0	0	0
Particles >71µm	ASTM D7647	>4	0	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	16/14/11	16/14/10	15/13/10

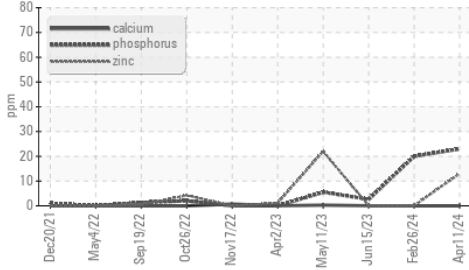
FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	▲ 3.02	▲ 4.01	● 1.54

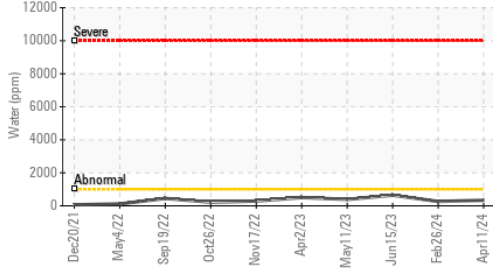


OIL ANALYSIS REPORT

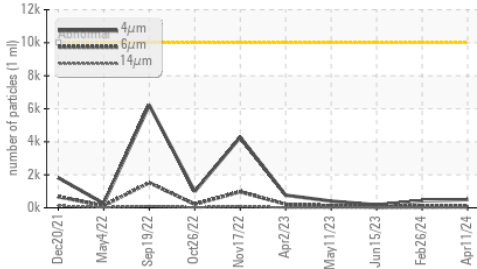
Additives



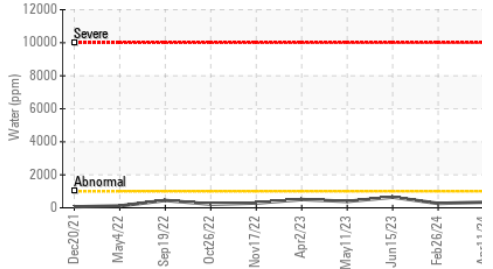
Water (KF)



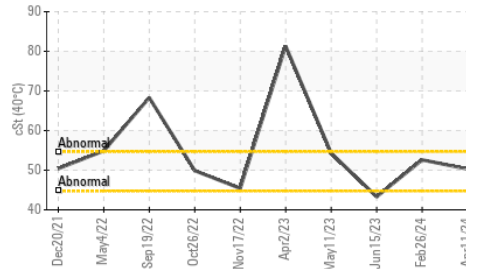
Particle Trend



Water (KF)



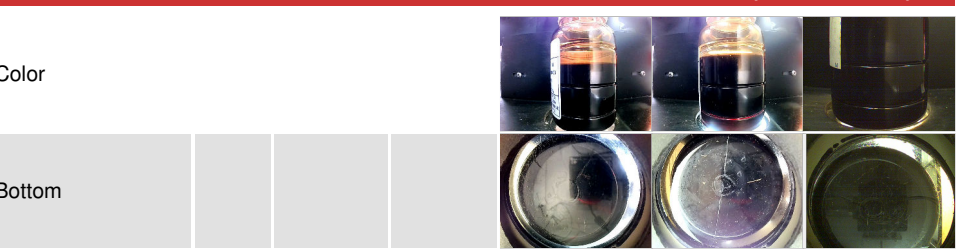
Viscosity @ 40°C



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

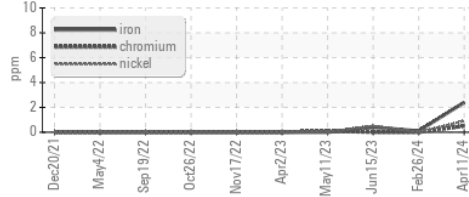
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	50.3	52.6	43.3

SAMPLE IMAGES

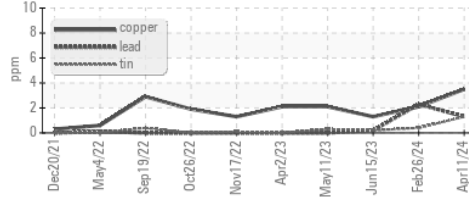


GRAPHS

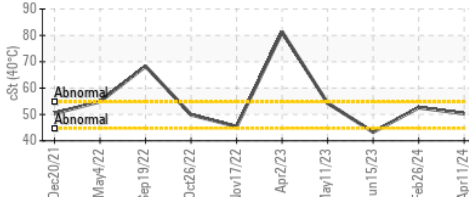
Ferrous Alloys



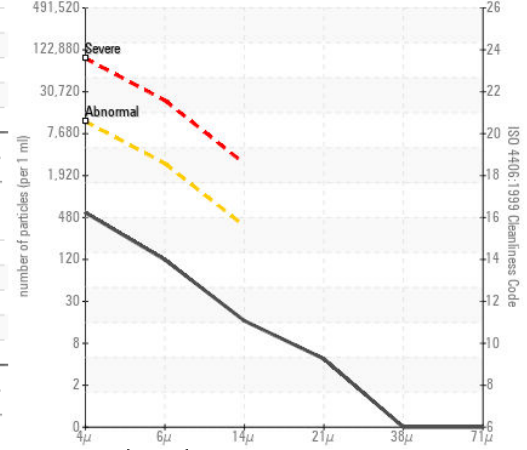
Non-ferrous Metals



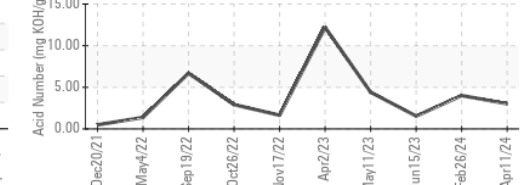
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : USPM36680
 Lab Number : 06147351
 Unique Number : 10977429
 Test Package : IND 2

Received : 12 Apr 2024
 Tested : 15 Apr 2024
 Diagnosed : 15 Apr 2024 - Doug Bogart

CARGILL

FORT MORGAN, CO
 US
 Contact:

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: