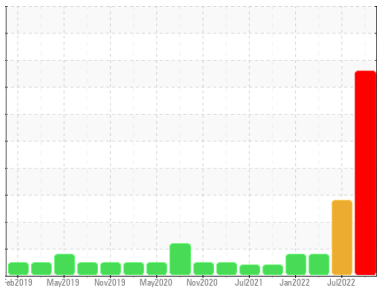
PROBLEM SUMMARY

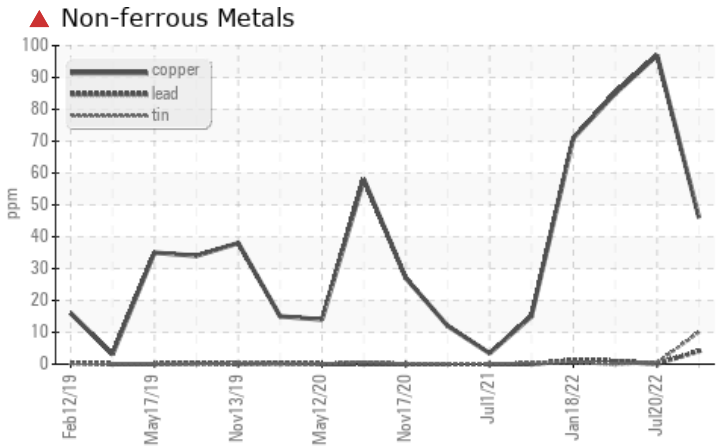
Sample Rating Trend

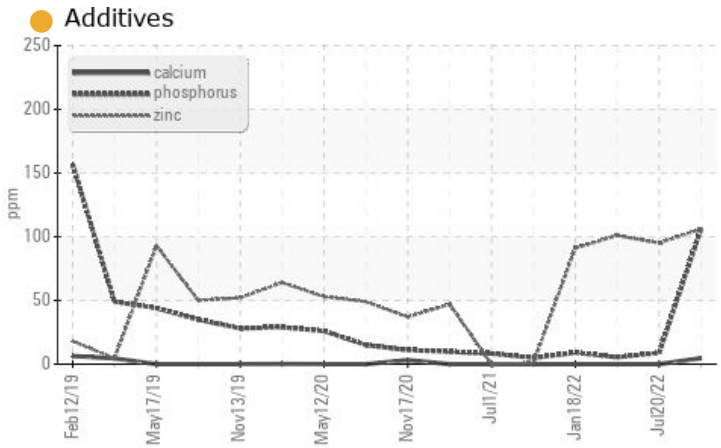


WEAR

Machine Id
GARDNER DENVER AC-1 (S/N S432862)
Component
Air Compressor
Fluid
USPI AIR 46 (--- GAL)

COMPONENT CONDITION SUMMARY





RECOMMENDATION

We recommend an early resample to monitor this condition. Elemental data confirmed.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Copper	ppm	ASTM D5185m	>40	▲ **46**	▲ 97	▲ 85
Tin	ppm	ASTM D5185m	>5	▲ **10**	<1	0

Customer Id: PERCROKY
Sample No.: USPM36325
Lab Number: 06197653
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
Resample	---	---	?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

WEAR

20 Jul 2022 Diag: Doug Bogart
We recommend you service the filters on this component. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

WEAR

21 Apr 2022 Diag: Doug Bogart
We recommend an early resample to monitor this condition.The copper level is abnormal. All other 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 acceptable for this fluid. The condition of the oil is suitable for further service.

view report

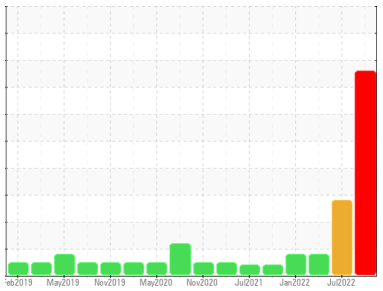
WEAR

18 Jan 2022 Diag: Doug Bogart
We recommend an early resample to monitor this condition.The copper level is abnormal. All other 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 acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
GARDNER DENVER AC-1 (S/N S432862)
Component
Air Compressor
Fluid
USPI AIR 46 (--- GAL)

DIAGNOSIS

▲ Recommendation
We recommend an early resample to monitor this condition. Elemental data confirmed.

▲ Wear
Bearing and/or bushing wear is indicated.

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 acceptable for this fluid. The condition of the oil is suitable for further service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USPM36325**	USPM23763	USPM20510
Sample Date		Client Info		**30 May 2024**	20 Jul 2022	21 Apr 2022
Machine Age	hrs	Client Info		**50806**	42244	42224
Oil Age	hrs	Client Info		**1986**	3771	3751
Oil Changed		Client Info		**N/A**	Not Changd	Not Changd
Sample Status				**SEVERE**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	**<1**	<1	<1
Chromium	ppm	ASTM D5185m	>4	**<1**	0	0
Nickel	ppm	ASTM D5185m	>4	**0**	0	0
Titanium	ppm	ASTM D5185m		**<1**	0	0
Silver	ppm	ASTM D5185m		**2**	2	0
Aluminum	ppm	ASTM D5185m	>10	**4**	0	0
Lead	ppm	ASTM D5185m	>20	**4**	<1	<1
Copper	ppm	ASTM D5185m	>40	▲ **46**	▲ 97	▲ 85
Tin	ppm	ASTM D5185m	>5	▲ **10**	<1	0
Antimony	ppm	ASTM D5185m		**---**	---	---
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	0	<1

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	**0**	3	0
Barium	ppm	ASTM D5185m	0	**2**	0	0
Molybdenum	ppm	ASTM D5185m	0	**0**	0	0
Manganese	ppm	ASTM D5185m		**0**	0	0
Magnesium	ppm	ASTM D5185m	0	**<1**	0	0
Calcium	ppm	ASTM D5185m	0	**5**	0	0
Phosphorus	ppm	ASTM D5185m	1	● **106**	9	5
Zinc	ppm	ASTM D5185m	0	● **106**	95	101
Sulfur	ppm	ASTM D5185m	0	**0**	3	0

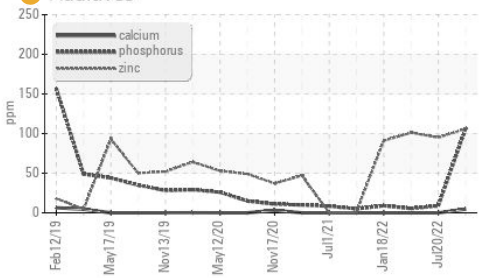
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	**2**	<1	<1
Sodium	ppm	ASTM D5185m		**0**	0	0
Potassium	ppm	ASTM D5185m	>20	**1**	0	0
Water	%	ASTM D6304	>0.2	**0.052**	0.132	0.089
ppm Water	ppm	ASTM D6304	>2000	**522**	1325.0	899.8

FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**2107**	▲ 39297	2299
Particles >6µm		ASTM D7647	>2500	**532**	▲ 8142	615
Particles >14µm		ASTM D7647	>320	**29**	▲ 347	47
Particles >21µm		ASTM D7647	>80	**6**	▲ 81	12
Particles >38µm		ASTM D7647	>20	**1**	3	0
Particles >71µm		ASTM D7647	>4	**0**	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**18/16/12**	▲ 22/20/16	18/16/13

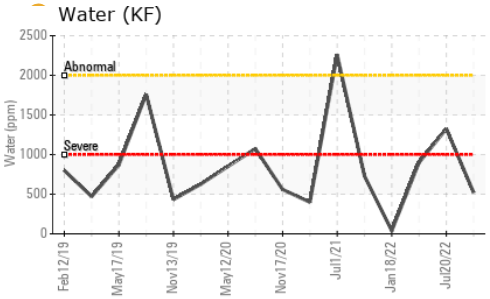
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	**0.40**	0.30	0.28

OIL ANALYSIS REPORT

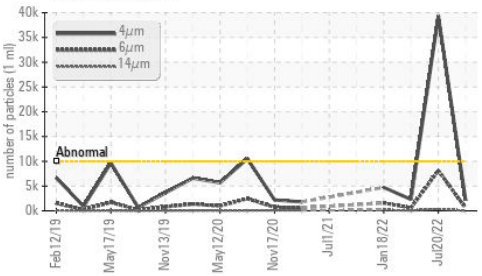
Additives



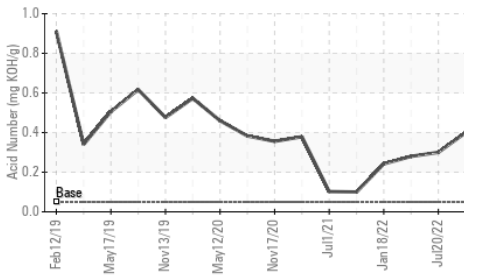
Water (KF)



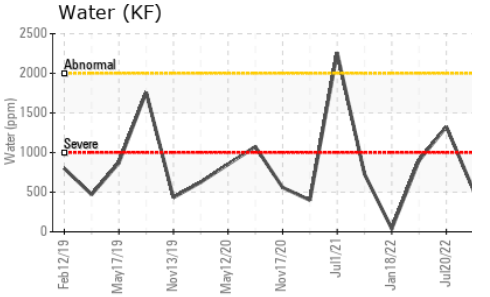
Particle Trend



Acid Number

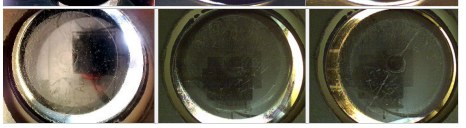


Water (KF)



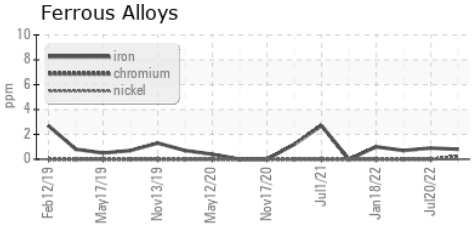
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	**NEG**	NEG	NEG
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	**45.8**	51.89	51.9

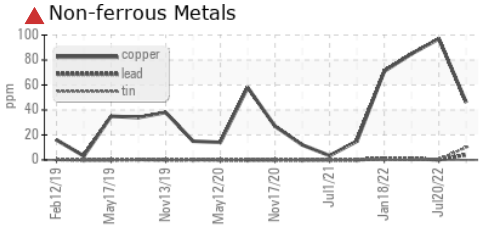
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

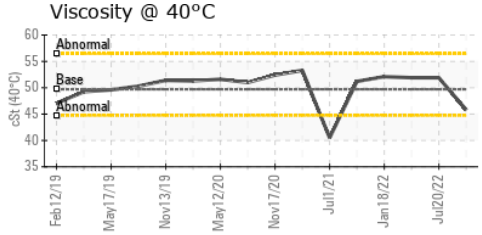
Ferrous Alloys



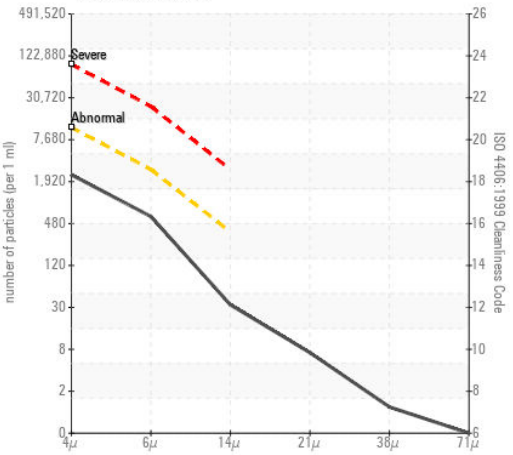
Non-ferrous Metals



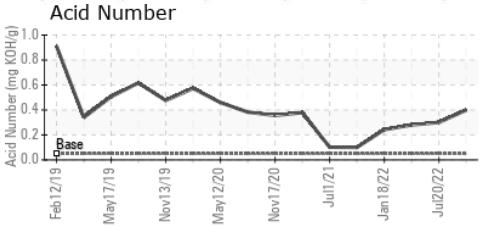
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USPM36325
Lab Number : 06197653
Unique Number : 11059776
Test Package : IND 2

Received : 03 Jun 2024
Tested : 09 Jun 2024
Diagnosed : 09 Jun 2024 - Doug Bogart

PERDUE FOODS - CROMWELL
489 CROMWELL RD
CROMWELL, KY
US 42333
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: