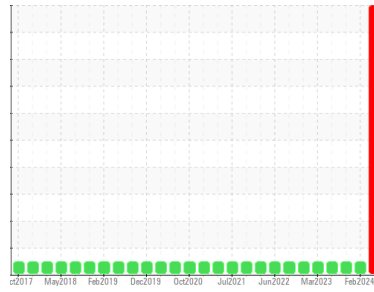




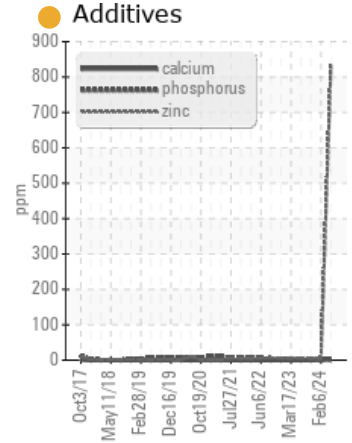
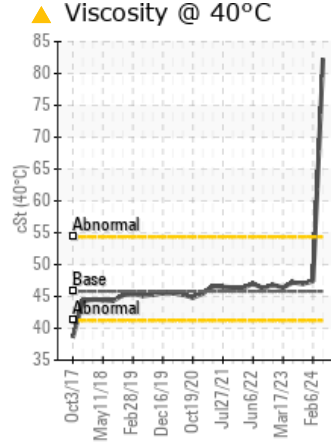
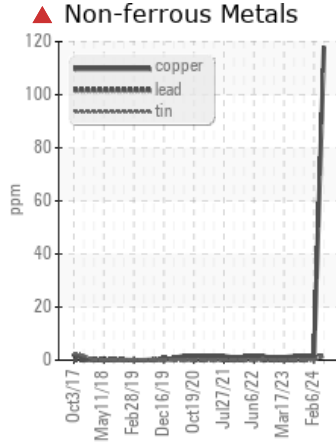
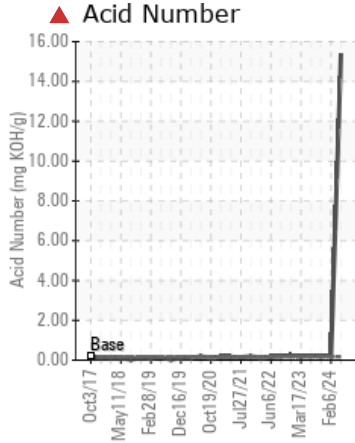
# PROBLEM SUMMARY

## Sample Rating Trend



Machine Id  
**AIR 2 (S/N 1004)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI MAX FG AIR 46 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	NORMAL
Copper	ppm	ASTM D5185m	>40	▲ 118	1	2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	▲ 15.38	0.23	0.21
Visc @ 40°C	cSt	ASTM D445	45.8	▲ 82.3	47.4	47.0

Customer Id: AMEGREEAS  
 Sample No.: USPM37592  
 Lab Number: 06204675  
 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](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto: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.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

NORMAL



### 06 Feb 2024 Diag: Doug Bogart

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

view report



NORMAL



### 28 Sep 2023 Diag: Doug Bogart

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

view report



NORMAL



### 21 Jun 2023 Diag: Doug Bogart

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

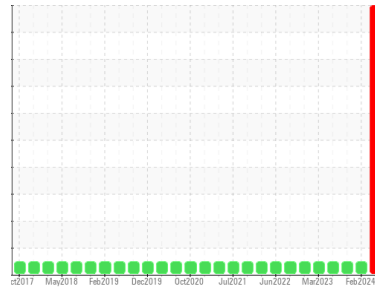
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id  
**AIR 2 (S/N 1004)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI MAX FG AIR 46 (--- GAL)**

## DIAGNOSIS

- Recommendation**  
Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.
- 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 above the recommended limit. The oil viscosity is higher than normal. Confirmed.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USPM37592</b>	USPM30063	USPM29790
Sample Date	Client Info		<b>31 May 2024</b>	06 Feb 2024	28 Sep 2023
Machine Age	hrs	Client Info	<b>56879</b>	55107	53751
Oil Age	hrs	Client Info	<b>0</b>	27389	26033
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	NORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>2</b>	0	<1
Chromium	ppm	ASTM D5185m >4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185m >3	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>2</b>	<1	0
Lead	ppm	ASTM D5185m >20	<b>2</b>	<1	0
Copper	ppm	ASTM D5185m >40	<b>▲ 118</b>	1	2
Tin	ppm	ASTM D5185m >5	<b>2</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 0	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 0	<b>1</b>	0	0
Molybdenum	ppm	ASTM D5185m 0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Magnesium	ppm	ASTM D5185m 0	<b>3</b>	1	<1
Calcium	ppm	ASTM D5185m 0	<b>3</b>	1	0
Phosphorus	ppm	ASTM D5185m 0	<b>2</b>	1	1
Zinc	ppm	ASTM D5185m 0	<b>● 835</b>	2	4
Sulfur	ppm	ASTM D5185m 0	<b>31</b>	16	57

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	6	5
Sodium	ppm	ASTM D5185m	<b>19</b>	<1	0
Potassium	ppm	ASTM D5185m >20	<b>6</b>	2	<1
Water	%	ASTM D6304 >0.6	<b>0.103</b>	0.002	0.020
ppm Water	ppm	ASTM D6304 >6000	<b>1035</b>	22	208.1

## FLUID CLEANLINESS

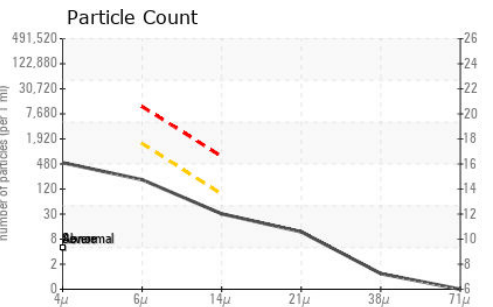
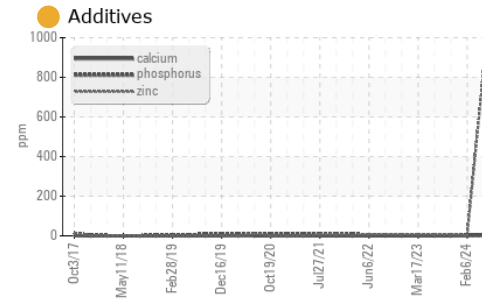
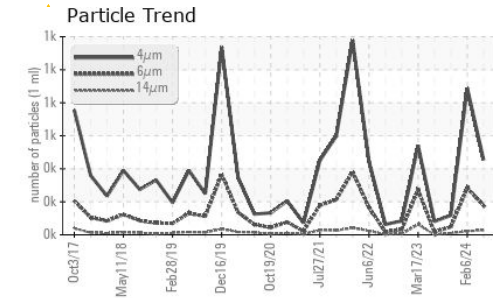
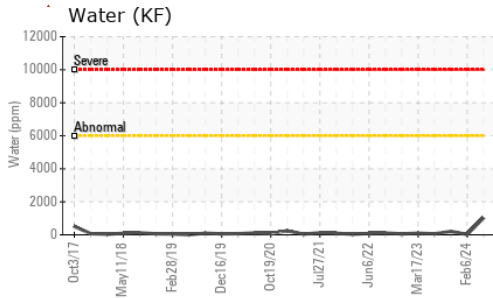
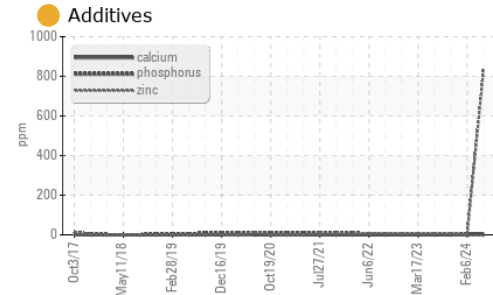
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>453</b>	888	118
Particles >6µm	ASTM D7647 >1300		<b>177</b>	284	48
Particles >14µm	ASTM D7647 >80		<b>27</b>	22	9
Particles >21µm	ASTM D7647 >20		<b>10</b>	3	4
Particles >38µm	ASTM D7647 >4		<b>1</b>	0	1
Particles >71µm	ASTM D7647 >3		<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >--/17/13		<b>16/15/12</b>	17/15/12	14/13/10

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.16	<b>▲ 15.38</b>	0.23	0.21



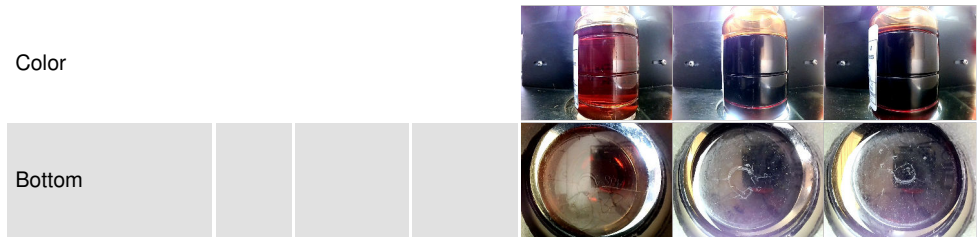
# OIL ANALYSIS REPORT



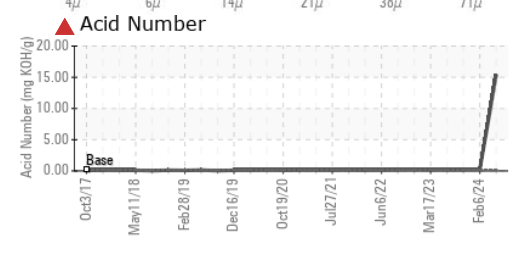
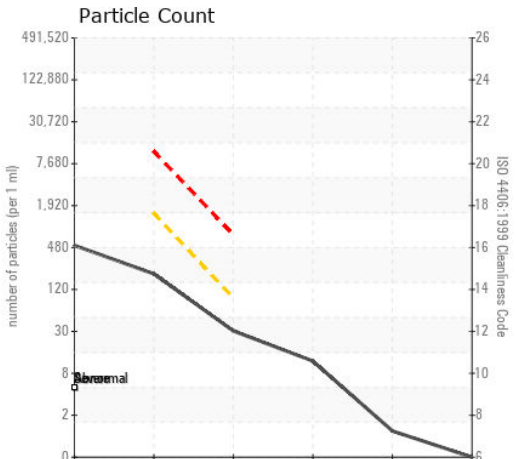
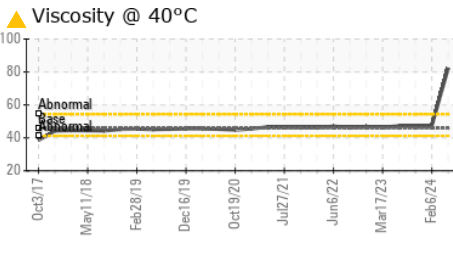
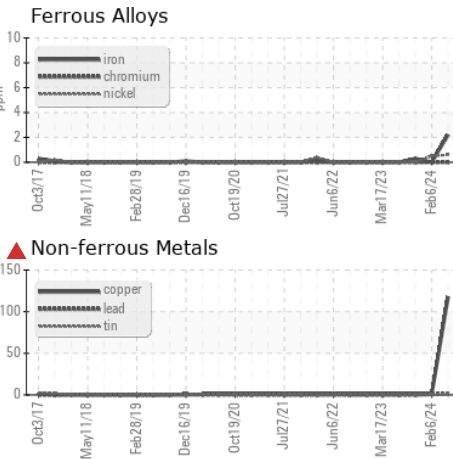
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8 <b>▲ 82.3</b>	47.4	47.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM37592  
**Lab Number** : 06204675  
**Unique Number** : 11072136  
**Test Package** : IND 2

**AMERICAN FOODS GROUP - EAST RIVER**  
 800 UNIVERSITY AVE  
 GREEN BAY, WI  
 US 54302  
 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)