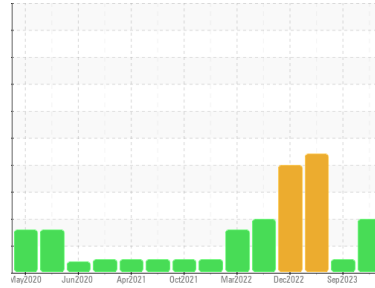




# PROBLEM SUMMARY

Sample Rating Trend

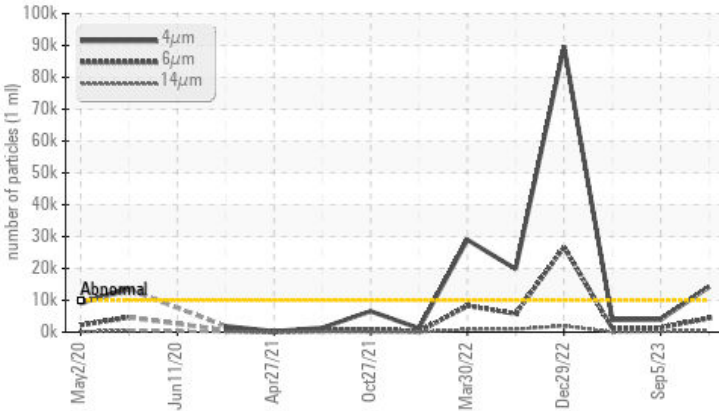
ISO



Machine Id  
**QUINCY AIR COMPRESSOR SECONDARY (SHOP) (S/N UTY101284)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI AIR 46 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ASTM D7647	ATTENTION	NORMAL	ABNORMAL
Particles >4µm	>10000	▲ 14211	3955	3844
Particles >6µm	>2500	▲ 4358	1432	1180
Particles >14µm	>320	▲ 448	172	81
Particles >21µm	>80	▲ 171	42	18
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 21/19/16	19/18/15	19/17/14

Customer Id: CARSTOCA  
 Sample No.: USPM29844  
 Lab Number: 05967108  
 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

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 05 Sep 2023 Diag: Doug Bogart

NORMAL



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



### 21 Mar 2023 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. Free water present. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. This plus the additive levels indicates the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid.

view report



### 29 Dec 2022 Diag: Doug Bogart

WATER



We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Free water present. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

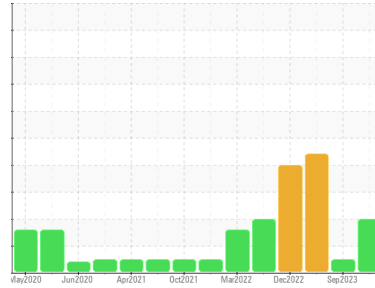
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**QUINCY AIR COMPRESSOR SECONDARY (SHOP) (S/N UTY101284)**

Component  
**Air Compressor**  
Fluid  
**USPI AIR 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of particulates present in the oil.

### 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		<b>USPM29844</b>	USP222023	USP05799212
Sample Date	Client Info		<b>02 Oct 2023</b>	05 Sep 2023	21 Mar 2023
Machine Age	hrs	Client Info	<b>0</b>	23798	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ATTENTION</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>50	<b>0</b>	0	<1
Chromium	ppm	ASTM D5185m	>4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>2</b>	<1	1
Lead	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>40	<b>0</b>	0	0
Tin	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</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>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	0	<1
Manganese	ppm	ASTM D5185m		<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m	0	<b>&lt;1</b>	<1	4
Calcium	ppm	ASTM D5185m	0	<b>0</b>	<1	9
Phosphorus	ppm	ASTM D5185m	1	<b>59</b>	62	▲ 111
Zinc	ppm	ASTM D5185m	0	<b>1</b>	6	8
Sulfur	ppm	ASTM D5185m	0	<b>142</b>	163	▲ 248

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>25	<b>4</b>	<1	<1
Sodium	ppm	ASTM D5185m		<b>0</b>	0	0
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	<1
Water	%	ASTM D6304	>0.2	<b>0.044</b>	0.032	▲ 0.607
ppm Water	ppm	ASTM D6304	>2000	<b>442.6</b>	320.7	▲ 6067

## FLUID CLEANLINESS

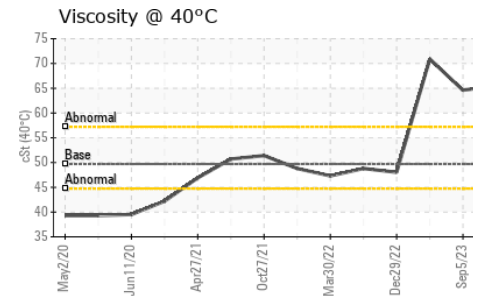
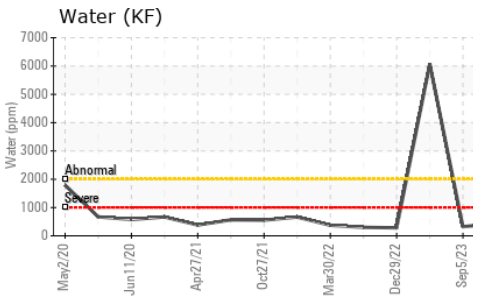
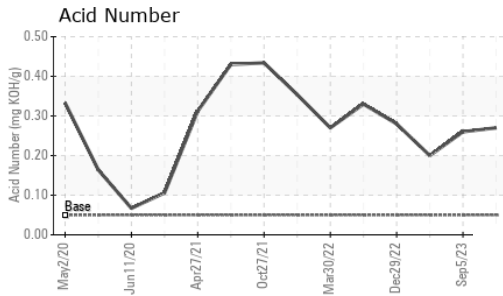
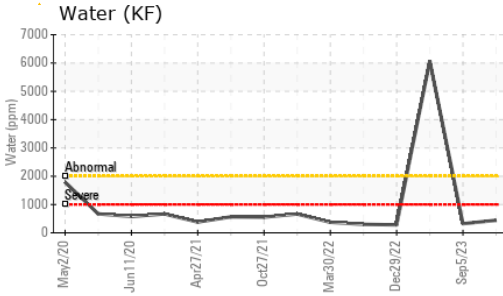
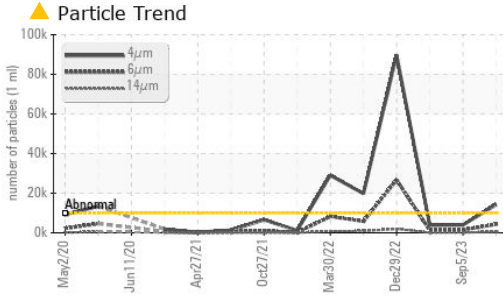
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	▲ <b>14211</b>	3955	3844
Particles >6µm	ASTM D7647	>2500	▲ <b>4358</b>	1432	1180
Particles >14µm	ASTM D7647	>320	▲ <b>448</b>	172	81
Particles >21µm	ASTM D7647	>80	▲ <b>171</b>	42	18
Particles >38µm	ASTM D7647	>20	<b>15</b>	1	1
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ <b>21/19/16</b>	19/18/15	19/17/14

## FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.05	<b>0.27</b>	0.26	0.20



# OIL ANALYSIS REPORT

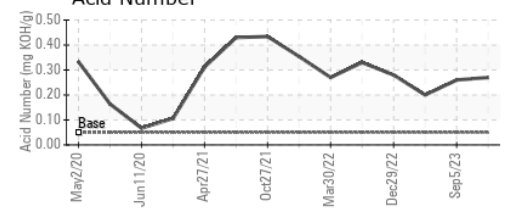
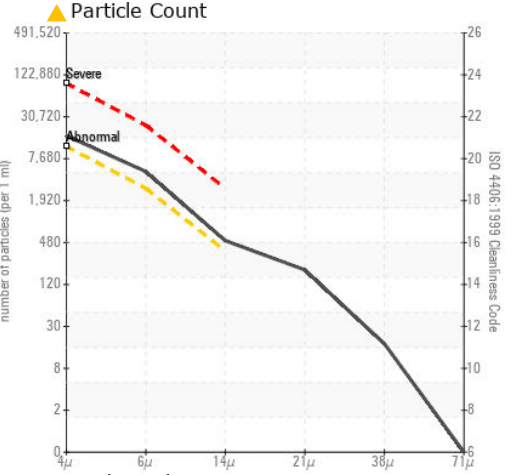
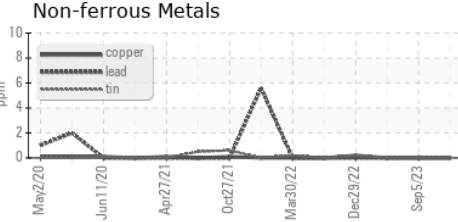
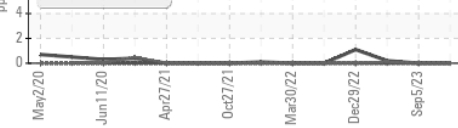


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	▲ 0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	65.5	64.6 ▲ 70.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM29844 **Received** : 02 Oct 2023  
**Lab Number** : 05967108 **Diagnosed** : 03 Oct 2023  
**Unique Number** : 10673659 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**CARGILL FEED & NUTRITION - STOCKTON**  
 4344 S EL DORADO ST  
 STOCKTON, CA  
 US 95201  
 Contact: DAVE POWERS  
 dave\_powers@cargill.com  
 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)