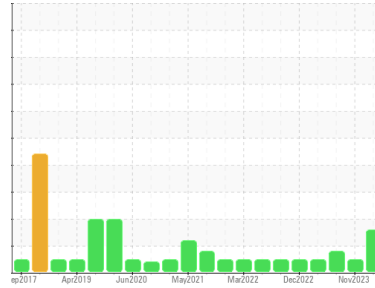




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**SULLAIR AIR 5 PRO (S/N 201706210040)**

Component  
**Air Compressor**

Fluid  
**USPI MAX FG AIR 46 (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Free water present. There is a trace of moisture present 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		<b>USPM30499</b>	USPM31335	USPM28820
Sample Date	Client Info		<b>06 Mar 2024</b>	14 Nov 2023	21 Jul 2023
Machine Age	hrs	Client Info	<b>43051</b>	41007	39661
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>ABNORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	2	3
Chromium	ppm	ASTM D5185m >4	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	1	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >40	<b>&lt;1</b>	6	5
Tin	ppm	ASTM D5185m >5	<b>&lt;1</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	<1
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	<1	1
Calcium	ppm	ASTM D5185m 0	<b>0</b>	2	4
Phosphorus	ppm	ASTM D5185m 0	<b>0</b>	0	0
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m 0	<b>0</b>	0	31

## CONTAMINANTS

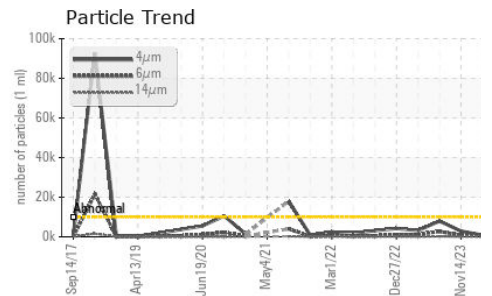
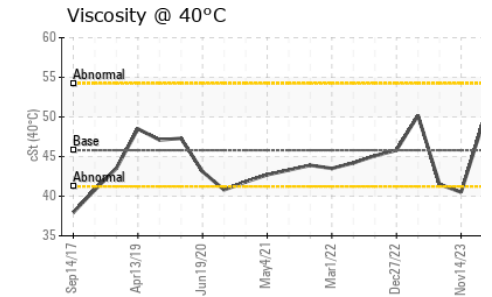
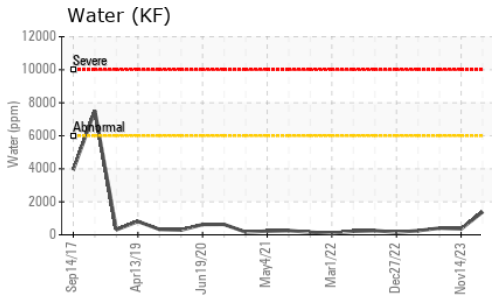
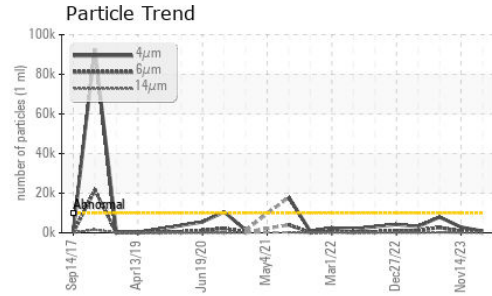
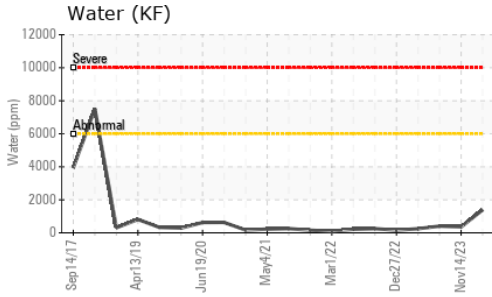
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>0</b>	0	2
Sodium	ppm	ASTM D5185m	<b>0</b>	0	1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	1	1
Water	%	ASTM D6304 >0.6	<b>0.139</b>	0.035	0.040
ppm Water	ppm	ASTM D6304 >6000	<b>1390</b>	354	407.1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>853</b>	2847	7931
Particles >6µm	ASTM D7647	>2500	<b>465</b>	800	2692
Particles >14µm	ASTM D7647	>320	<b>79</b>	70	255
Particles >21µm	ASTM D7647	>80	<b>27</b>	15	73
Particles >38µm	ASTM D7647	>20	<b>4</b>	1	4
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>17/16/13</b>	19/17/13	20/19/15

## FLUID DEGRADATION

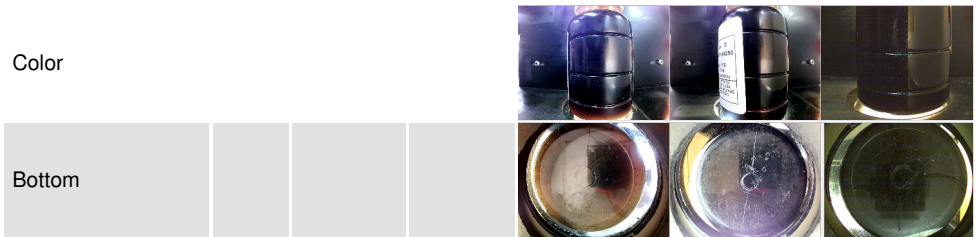
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.16	<b>0.76</b>	0.73	0.92



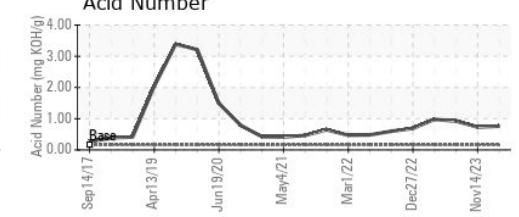
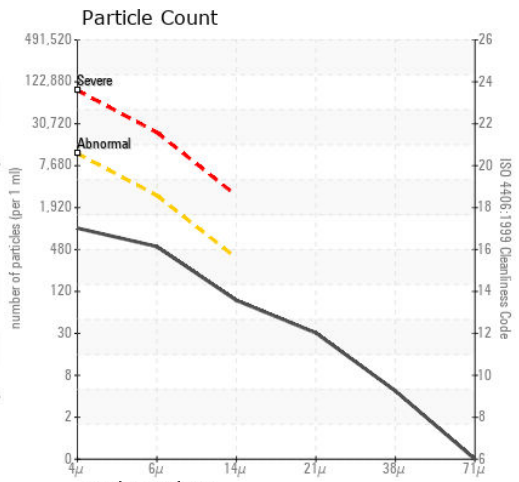
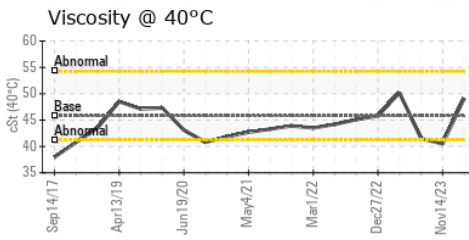
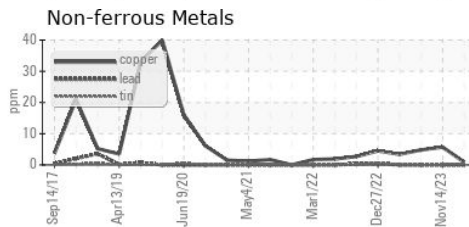
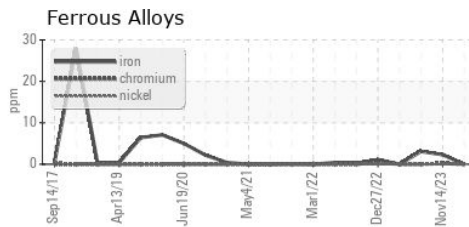
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.6	0.2%	NEG
Free Water	scalar	*Visual	▲ 2.0	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	45.8	49.1	40.5

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USPM30499  
**Lab Number** : 06123134  
**Unique Number** : 10937285  
**Test Package** : IND 2  
**Received** : 19 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Doug Bogart

**TYSON - AMARILLO-PRO**  
 AMARILLO, TX  
 US  
 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: