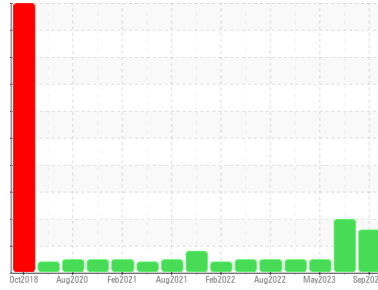




# PROBLEM SUMMARY

Sample Rating Trend



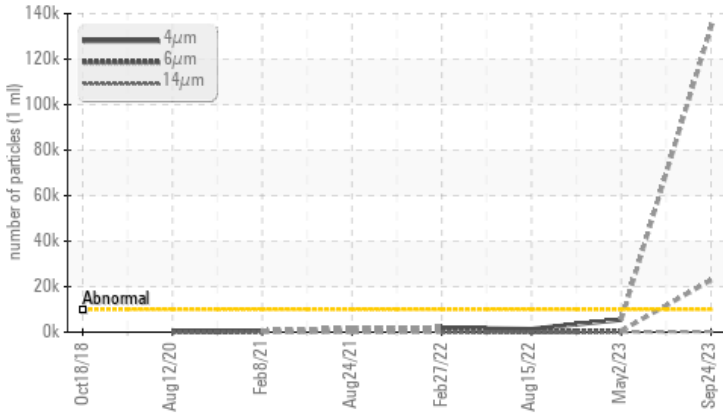
## ADDITIVES



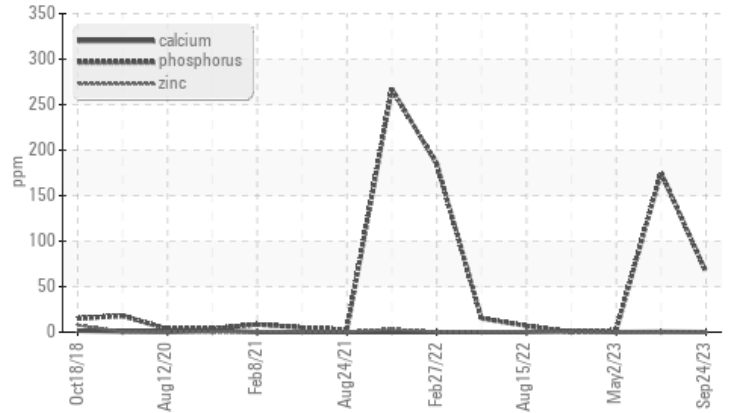
Machine Id  
**COMPAIR LEROI EVIS COMPAIR LEROI 100HP (S/N 4541X65)**  
 Component  
**Air Compressor**  
 Fluid  
**USPI AIR 46 (--- GAL)**

### COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Additives



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ABNORMAL	NORMAL
Phosphorus	ppm	ASTM D5185m 1	▲ 66	175	2
Particles >4µm		ASTM D7647 >10000	▲ 134020	---	5481
Particles >6µm		ASTM D7647 >2500	▲ 22832	---	631
Oil Cleanliness		ISO 4406 (c) >20/18/15	▲ 24/22/15	---	20/16/11

Customer Id: TYSBLOAL  
 Sample No.: USP0001933  
 Lab Number: 05959813  
 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

### 19 Jul 2023 Diag: Doug Bogart

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. An increase in the phosphorus level is noted. Confirmed. The AN level is acceptable for this fluid.

view report



### 02 May 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



### 09 Nov 2022 Diag: Jonathan Hester

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.

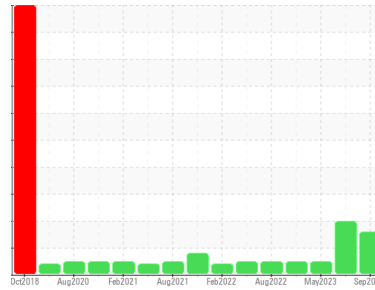
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



## ADDITIVES



Machine Id  
**COMPAIR LEROI EVIS COMPAIR LEROI 100HP (S/N 4541X65)**

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 high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

Phosphorus confirmed. 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>USP0001933</b>	USPM29021	USPM28830
Sample Date	Client Info		<b>24 Sep 2023</b>	19 Jul 2023	02 May 2023
Machine Age	hrs	Client Info	<b>0</b>	0	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>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>&lt;1</b>	4	0
Chromium	ppm	ASTM D5185m >4	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >4	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >10	<b>1</b>	<1	0
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >40	<b>2</b>	<1	0
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	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	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	0
Magnesium	ppm	ASTM D5185m 0	<b>0</b>	<1	<1
Calcium	ppm	ASTM D5185m 0	<b>0</b>	<1	0
Phosphorus	ppm	ASTM D5185m 1	<b>▲ 66</b>	175	2
Zinc	ppm	ASTM D5185m 0	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m 0	<b>0</b>	0	0

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>3</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>0</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	<1
Water	%	ASTM D6304 >0.2	<b>0.126</b>	<b>▲ 0.260</b>	0.109
ppm Water	ppm	ASTM D6304 >2000	<b>1269.4</b>	<b>▲ 2600</b>	1095.6

### FLUID CLEANLINESS

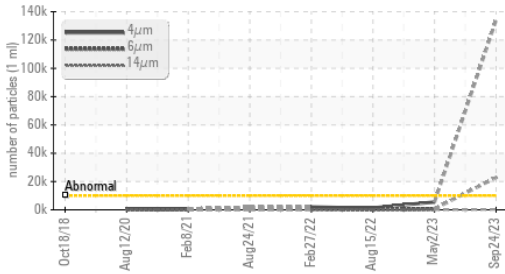
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>▲ 134020</b>	---	5481
Particles >6µm	ASTM D7647	>2500	<b>▲ 22832</b>	---	631
Particles >14µm	ASTM D7647	>320	<b>212</b>	---	13
Particles >21µm	ASTM D7647	>80	<b>31</b>	---	3
Particles >38µm	ASTM D7647	>20	<b>2</b>	---	0
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	0
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>▲ 24/22/15</b>	---	20/16/11

### FLUID DEGRADATION

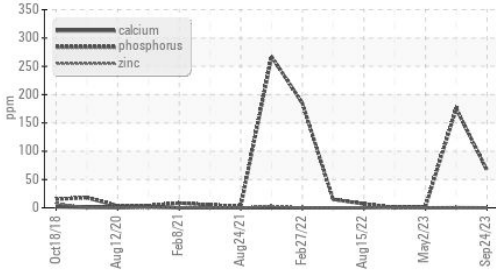
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.05	<b>0.37</b>	0.18	0.126

# OIL ANALYSIS REPORT

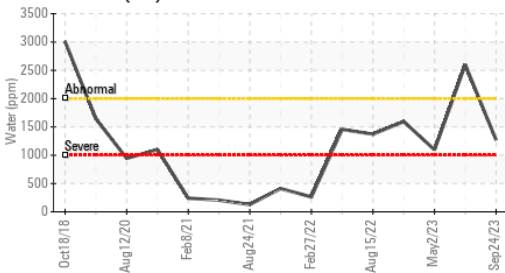
### Particle Trend



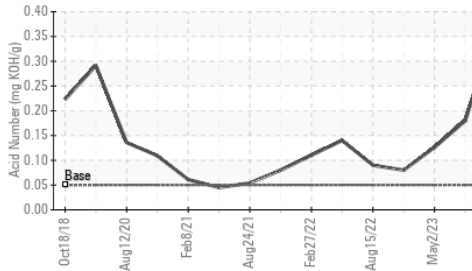
### Additives



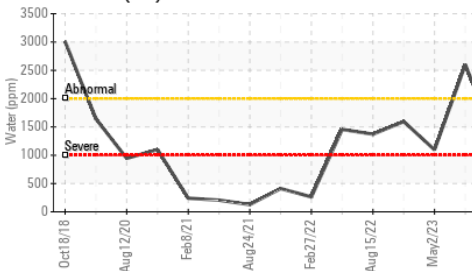
### Water (KF)



### Acid Number



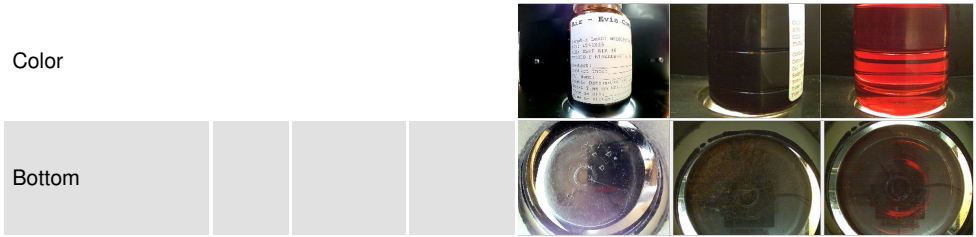
### Water (KF)



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	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	NEG

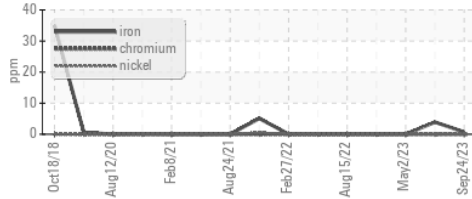
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	49.7	50.3	56.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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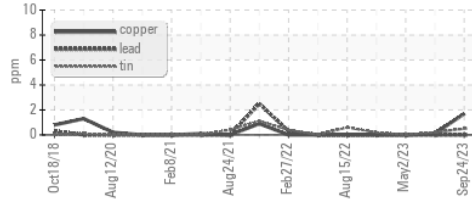


## GRAPHS

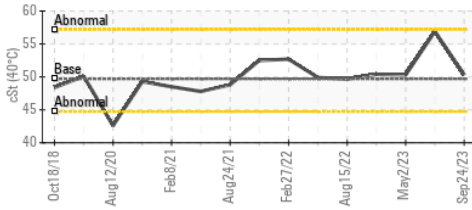
### Ferrous Alloys



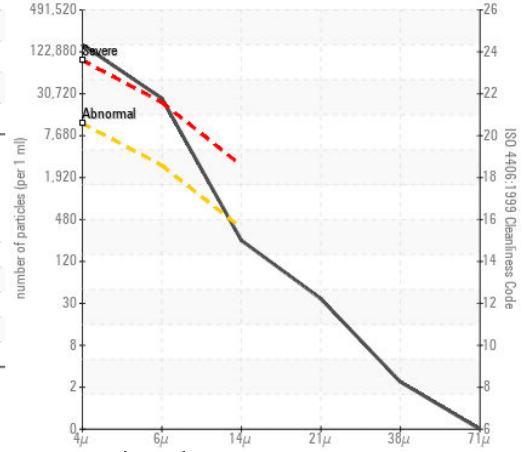
### Non-ferrous Metals



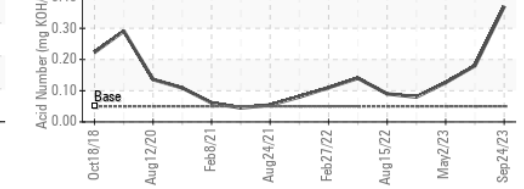
### Viscosity @ 40°C



### Particle Count



### Acid Number



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0001933 **Received** : 25 Sep 2023  
**Lab Number** : 05959813 **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10661026 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2

**TYSON-BLOUNTSVILLE-USP**  
 BLOUNTSVILLE, AL  
 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)