

# **PROBLEM SUMMARY**

### Sample Rating Trend

# **DEGRADATION**

X

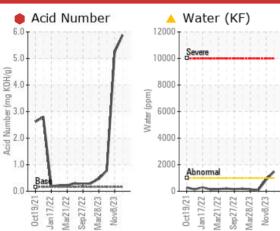
# **AE002 (S/N AIF109-776)**

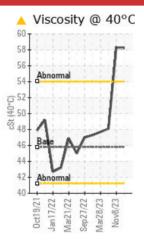
Component

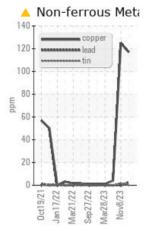
Air Compressor

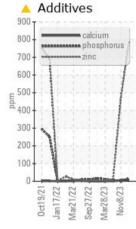
USPI MAX FG AIR 46 (--- GAL)

## 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	SEVERE	NORMAL			
Copper	ppm	ASTM D5185m	>80	<u> </u>	<u>▲</u> 125	4			
Zinc	ppm	ASTM D5185m	0	<b>A</b> 785	<b>474</b>	8			
Water	%	ASTM D6304	>0.1	<b>△</b> 0.148	0.088	0.008			
ppm Water	ppm	ASTM D6304	>1000	<u> </u>	883.1	87.4			
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	<b>5.88</b>	5.24	0.77			
<b>Emulsified Water</b>	scalar	*Visual	>0.1	<b>0.2%</b>	NEG	NEG			
Visc @ 40°C	cSt	ASTM D445	45.8	<u>▲</u> 58.2	▲ 58.3	48.1			

Customer Id: SMIKIN Sample No.: USPM26278 Lab Number: 06008342 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				
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

08 Nov 2023 Diag: Doug Bogart

### DEGRADATION



Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition. The copper level is abnormal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The oil viscosity is higher than normal. The AN level is above the recommended limit. Zinc level high. Confirmed.



## 03 Aug 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

## 28 Mar 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.





# **OIL ANALYSIS REPORT**

### Sample Rating Trend

# **RADATION**

**AE002 (S/N AIF109-776)** 

**Air Compressor** 

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

## Recommendation

DIAGNOSIS

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

The copper level is abnormal.

### Contamination

There is a light concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

The oil viscosity is higher than normal. The AN level is above the recommended limit. Zinc level high. Confirmed.

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SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM26278	USPM23316	USPM26280
Sample Date		Client Info		13 Nov 2023	08 Nov 2023	03 Aug 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>70	6	6	<1
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>6	<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>10	2	3	<1
Lead	ppm	ASTM D5185m	>20	2	0	0
Copper	ppm	ASTM D5185m	>80	_ 117	<u>125</u>	4
Tin	ppm	ASTM D5185m	>15	0	2	0
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0	0	0
Barium	ppm	ASTM D5185m	0	<1	4	0
Molybdenum	ppm	ASTM D5185m	0	0	0	0
Manganese	ppm	ASTM D5185m		1	<1	<1
Magnesium	ppm	ASTM D5185m	0	1	<1	0
Calcium	ppm	ASTM D5185m	0	8	7	<1
Phosphorus	ppm	ASTM D5185m	0	16	0	7
Zinc	ppm	ASTM D5185m	0	<u> </u>	<u> </u>	8
Sulfur	ppm	ASTM D5185m	0	24	0	7
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>12	0	0	0
Sodium	ppm	ASTM D5185m	712	10	6	2
Potassium	ppm	ASTM D5185m	>20	2	4	<1
Water	%	ASTM D6304	>0.1	<u>→</u> 0.148	0.088	0.008
ppm Water	ppm	ASTM D6304	>1000	<u>▲</u> 1480	883.1	87.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>10000	4647	2157	326
Particles >6µm		ASTM D7647		723	616	120
Particles >14µm		ASTM D7647	>320	11	53	14
Particles >21µm		ASTM D7647		2	17	4
Particles >38µm		ASTM D7647	>20	0	2	1
Particles >71μm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	19/17/11	18/16/13	16/14/11
FLUID DEGRADA	ATION _	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.16	<b>5.88</b>	5.24	0.77
			3	<b>—</b>	<b>-</b> 0 1	



# **OIL ANALYSIS REPORT**

