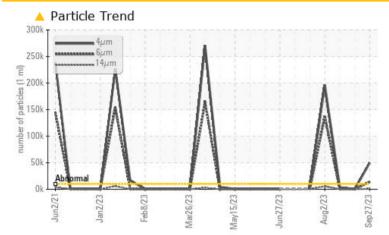


# **PROBLEM SUMMARY**

## Area PHS AND PLS SYSTEM Machine Id RECYCLED NH3 SYSTEM 2 Component

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

# COMPONENT CONDITION SUMMARY



## RECOMMENDATION

This is a baseline read-out on the submitted sample. COMP 8 PHS AFTER FILTERS

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>10000	<u> </u>	651	3581				
Particles >6µm	ASTM D7647	>2500	<u> </u>	140	401				
Particles >14µm	ASTM D7647	>320	<u> </u>	11	11				
Particles >21µm	ASTM D7647	>80	🔺 193	4	3				
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	17/14/11	19/16/11				

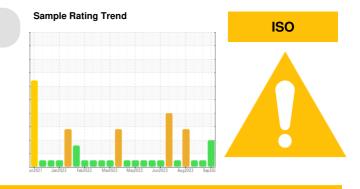
Customer Id: SMITAR Sample No.: USP248087 Lab Number: 05963603 Test Package: IND 2



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**

There are no recommended actions for this sample.

## **HISTORICAL DIAGNOSIS**

# 17 Sep 2023 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. 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.



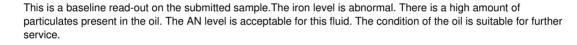
view report

### 22 Aug 2023 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. 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.

02 Aug 2023 Diag: Doug Bogart







# **OIL ANALYSIS REPORT**

# Area PHS AND PLS SYSTEM Machine Id RECYCLED NH3 SYSTEM 2

Refrigeration Compressor Fluid USPI ALT-68 SC (--- GAL)

# DIAGNOSIS

## A Recommendation

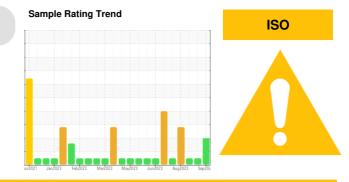
This is a baseline read-out on the submitted sample. COMP 8 PHS AFTER FILTERS

## Contamination

There is a high amount of particulates present in the oil. There is a trace of moisture 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 INFORM	<b>MATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USP248087	USP248086	USP248085
Sample Date		Client Info		27 Sep 2023	17 Sep 2023	22 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				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	16	26
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	<1	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	<1	<1
Phosphorus	ppm	ASTM D5185m		0	<1	7
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	16
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	2
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.012	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	125.9	30.0	28.3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>49608</b>	651	3581
Particles >6µm		ASTM D7647	>2500	<u> </u>	140	401
Particles >14µm		ASTM D7647	>320	<b>4</b> 957	11	11
Particles >21µm		ASTM D7647	>80	<mark>人</mark> 193	4	3
Particles >38µm		ASTM D7647	>20	1	1	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 23/21/17	17/14/11	19/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.014	0.015



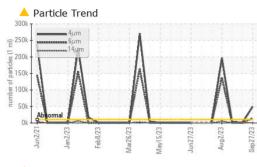
Acid Number

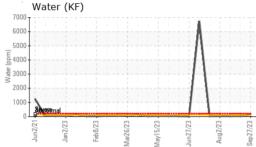
0.04

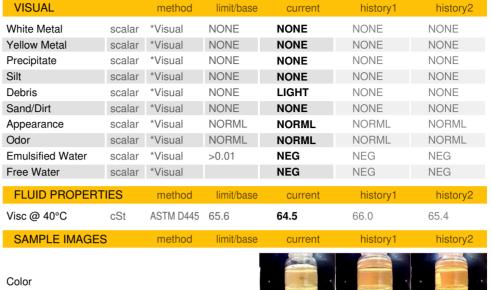
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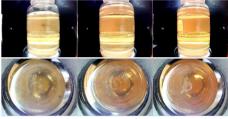
Acid I

# **OIL ANALYSIS REPORT**



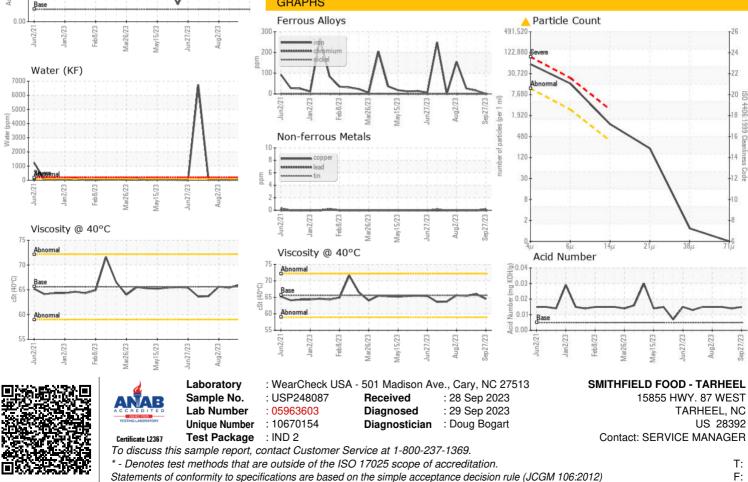






Bottom





Contact/Location: SERVICE MANAGER - SMITAR