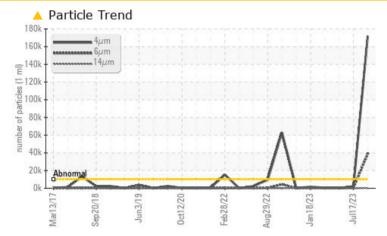


# **PROBLEM SUMMARY**

# RECYCLED NH3 OIL

Refrigeration Compressor Fluid USPI ALT-68 SC (70 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	NORMAL	NORMAL		
Particles >4µm	ASTM D7647	>10000	<u> </u>	2271	280		
Particles >6µm	ASTM D7647	>2500	<b>A</b> 38808	395	86		
Particles >14µm	ASTM D7647	>320	<u> </u>	11	12		
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	18/16/11	15/14/11		

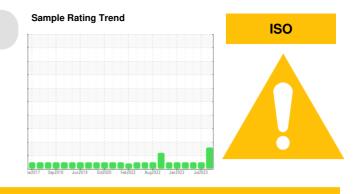
Customer Id: TYSSHETN Sample No.: USP0000480 Lab Number: 05935482 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

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 Jul 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.

### 13 Jun 2023 Diag: Jonathan Hester



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



25 Apr 2023 Diag: Doug Bogart

condition of the oil is suitable for further service.



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



## **OIL ANALYSIS REPORT**

Sample Rating Trend

### Machine Id **RECYCLED NH3 OIL** Component

**Refrigeration Compressor** Fluid USPI ALT-68 SC (70 GAL)

### DIAGNOSIS

### A Recommendation

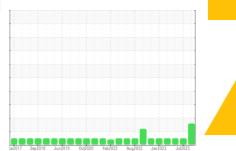
This is a baseline read-out on the submitted sample.

### Contamination

There is a high 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.



ISO

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0000480	USP244158	USP244160
Sample Date		Client Info		21 Aug 2023	17 Jul 2023	13 Jun 2023
Machine Age	hrs	Client Info		48	0	120
Oil Age	hrs	Client Info		0	120	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	8	4	4
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
	ppm	ASTM D5185m	>8	0	0	<1
	ppm	ASTM D5185m	>4	0	0	0
	ppm	ASTM D5185m		<1	0	0
- · ·	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	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	7	4
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	1	1	2
Sodium	ppm	ASTM D5185m		<1	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	1
Water	%	ASTM D6304	>0.01	0.008	0.005	0.005
ppm Water	ppm	ASTM D6304	>100	82.6	51.4	56.2
FLUID CLEANLINE	SS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> 171760</u>	2271	280
Particles >6µm		ASTM D7647	>2500	<b>A</b> 38808	395	86
Particles >14µm		ASTM D7647	>320	<b>A</b> 393	11	12
Particles >21µm		ASTM D7647		27	2	3
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 25/22/16	18/16/11	15/14/11

FLUID DEGRADATION method limit/base history1 history2 current Acid Number (AN) mg KOH/g ASTM D974 0.005 0.013 0.014 0.007

Contact/Location: WES WYATT - TYSSHETN

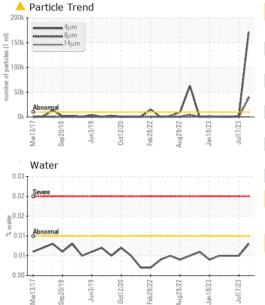


Marl

0.04

Acid Number

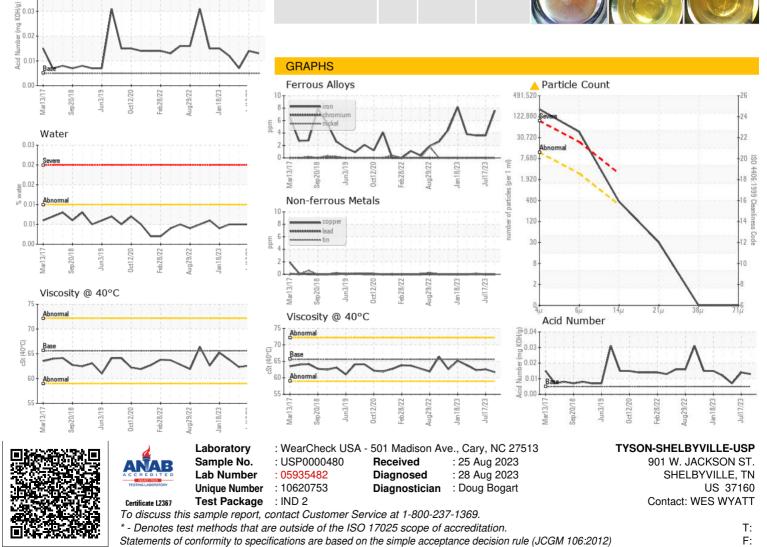
# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	61.7	62.6	62.3
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color				MHES		

Bottom

an



Report Id: TYSSHETN [WUSCAR] 05935482 (Generated: 08/28/2023 19:38:22) Rev: 1

Contact/Location: WES WYATT - TYSSHETN