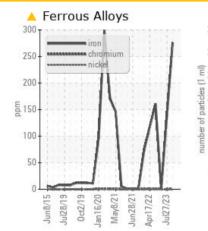


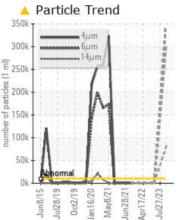
PROBLEM SUMMARY

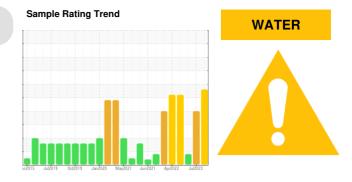
RS RECYCLED NH3 OIL

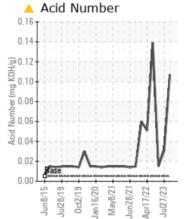
Refrigeration Compressor Fluid USPI ALT-68 SC (200 GAL)

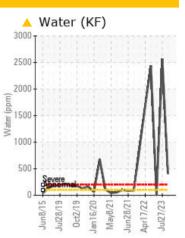
COMPONENT CONDITION SUMMARY











RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

THODELWATIOT		00210				
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
Iron	ppm	ASTM D5185m	>8	<u> </u>	<u> </u>	0
Water	%	ASTM D6304	>0.01	6.040	0.256	0.001
ppm Water	ppm	ASTM D6304	>100	407.2	A 2565.4	7.6
Particles >4µm		ASTM D7647	>10000	🔺 341668		100
Particles >6µm		ASTM D7647	>2500	<u> </u>		50
Particles >14µm		ASTM D7647	>320	A 76423		5
Particles >21µm		ASTM D7647	>80	<u> </u>		1
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 26/25/23		14/13/10
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	A 0.107	0.031	0.015

Customer Id: TYSSED Sample No.: USP248034 Lab Number: 05995664 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 There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

27 Jul 2023 Diag: Doug Bogart

WATER



This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The oil viscosity is lower than normal. Confirmed. The AN level is acceptable for this fluid.

22 Mar 2023 Diag: Doug Bogart

VISCOSITY



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 oil viscosity is lower than normal. Additive levels also confirmed. The AN level is acceptable for this fluid.



view repor

WATER



03 Oct 2022 Diag: Doug Bogart

This is a baseline read-out on the submitted sample. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. The oil viscosity is lower than normal. The AN level is approaching the top-end of the recommended limit.







OIL ANALYSIS REPORT

Sample Rating Trend

WATER

RS RECYCLED NH3 OIL

Refrigeration Compressor Fluid USPI ALT-68 SC (200 GAL)

DIAGNOSIS

A Recommendation

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

🔺 Wear

The iron level is abnormal.

Contamination

There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil.

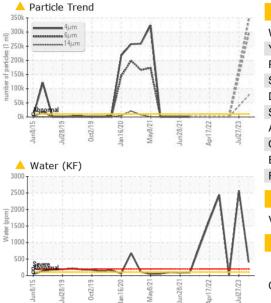
Fluid Condition

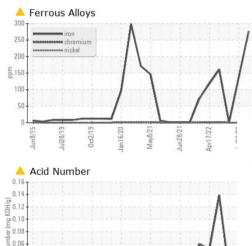
The AN level is approaching the top-end of the recommended limit.

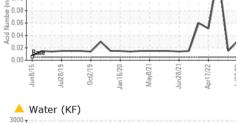
	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP248034	USP255316	USP247808
Sample Date		Client Info		31 Oct 2023	27 Jul 2023	22 Mar 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>8	▲ 276	139	0
Chromium	ppm			<1	0	0
	ppm	ASTM D5185m	>2			
Nickel	ppm	ASTM D5185m		0	0	<1
Titanium	ppm	ASTM D5185m	0	0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	0	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
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	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		0	0	A 33
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	87
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	3
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.01	0.040	▲ 0.256	0.001
ppm Water	ppm	ASTM D6304	>100	407.2	▲ 2565.4	7.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	A 341668		100
Particles >6µm		ASTM D7647	>2500	<u> </u>		50
Particles >14µm		ASTM D7647	>320	^ 76423		5
		ASTM D7647	>80	<u> </u>		1
		ASTM D7647	>20	1		0
Particles >21µm Particles >38µm		AGTIVI D7047				
Particles >21µm Particles >38µm		ASTM D7647	>4	0		0
Particles >21µm			>4 >20/18/15	0 <u> </u>		0 14/13/10
Particles >21µm Particles >38µm Particles >71µm	TION	ASTM D7647				

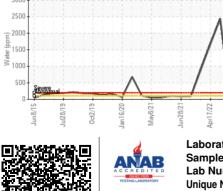


OIL ANALYSIS REPORT







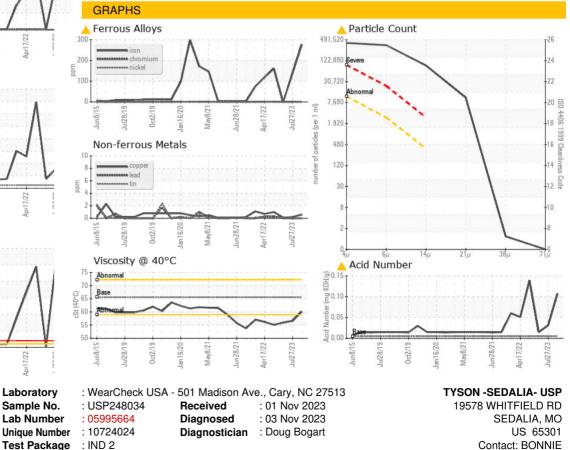


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	🔺 HAZY	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 PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	60.1	▲ 56.6	▲ 55.89
SAMPLE IMAGES		method	limit/base	current	history1	history2
					Raw Side Recycled Ne	A CALL OF THE REAL OF

Color



Bottom



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)

Certificate L2367

Contact/Location: BONNIE ? - TYSSED

bonnie.weathers@tyson.com

Т:

F: