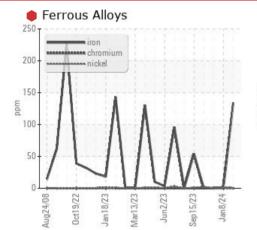


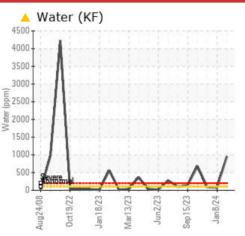
PROBLEM SUMMARY

TYSWAT RECYCLED NH3

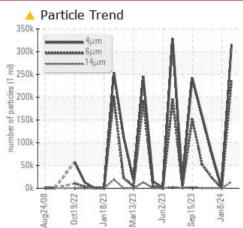
Refrigeration Compressor Fluid USPI 1009-68 SC (--- GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component. BATCH 6 BEFORE

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE	NORMAL	ABNORMAL		
Iron	ppm	ASTM D5185m	>8	🛑 134	<1	<1		
Water	%	ASTM D6304	>0.01	A 0.095	0.007	0.009		
ppm Water	ppm	ASTM D6304	>100	<u> </u>	71	91		
Particles >6µm		ASTM D7647	>2500	🔺 236290	193	🔺 22831		
Particles >14µm		ASTM D7647	>320	🔺 14112	9	4 21		
Particles >21µm		ASTM D7647	>80	<u> </u>	3	30		
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u> </u>	17/15/10	▲ 23/22/16		

Customer Id: IBPWAT01 Sample No.: USP0005063 Lab Number: 06062042 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@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 Filter			?	We recommend you service the filters on this component.		

HISTORICAL DIAGNOSIS





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.



27 Nov 2023 Diag: Doug Bogart

08 Jan 2024 Diag: Doug Bogart



This is a baseline read-out on the submitted sample. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



10 Oct 2023 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. Appearance is hazy. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







OIL ANALYSIS REPORT

Sample Rating Trend

TYSWAT RECYCLED NH3

Refrigeration Compressor Fluid USPI 1009-68 SC (--- GAL)

DIAGNOSIS

Recommendation

This is a baseline read-out on the submitted sample. We recommend you service the filters on this component. BATCH 6 BEFORE

🛑 Wear

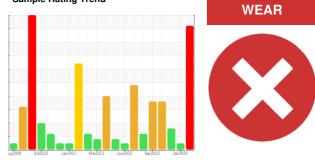
The iron level is severe.

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 acceptable for this fluid.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0005063	USP0005209	USP0003982
Sample Date		Client Info		11 Jan 2024	08 Jan 2024	27 Nov 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	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	e 134	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	1	0	0
Lead	ppm	ASTM D5185m	>2	0	<1	0
Copper	ppm	ASTM D5185m	>8	<1	<1	<1
Tin	ppm	ASTM D5185m	>4	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	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	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	1
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		0	0	1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	53
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	2	2	1
Sodium	ppm	ASTM D5185m		0	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.01	A 0.095	0.007	0.009
ppm Water	ppm	ASTM D6304	>100	4 957	71	91
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		316149	740	▲ 76678
Particles >6µm		ASTM D7647	>2500	<u> </u>	193	▲ 22831
Particles >14µm		ASTM D7647	>320	<u> </u>	9	4 21
Particles >21µm		ASTM D7647	>80	<u> </u>	3	30
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u> </u>	17/15/10	<u> </u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.053	0.013	0.013



OIL ANALYSIS REPORT

scalar

scalar

scalar

scalar

scalar

scalar

scalar

scalar

cSt

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

>0.01

*Visual

*Visual

*Visua

*Visual

*Visual

*Visua *Visual

*Visual

ASTM D445 67

scalar *Visual

scalar *Visual

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

64.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.2

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

NEG

NEG

65.5

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Sand/Dirt

Appearance

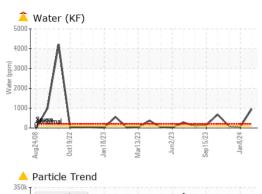
Free Water

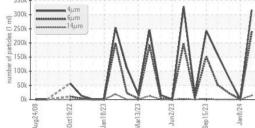
Visc @ 40°C

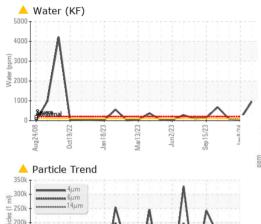
Emulsified Water

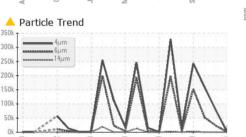
FLUID PROPERTIES

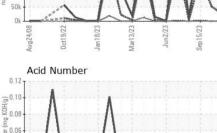
SAMPLE IMAGES









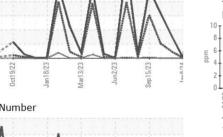


₹ 0.04

Pice Acid

0.00

Bas



Sep15/23

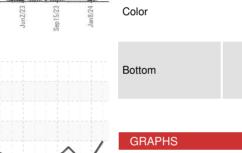
Laboratory

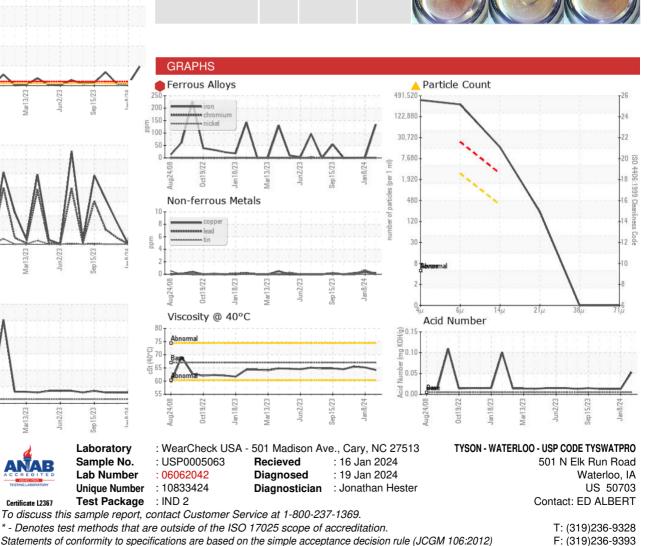
Sample No.

Lab Number

Unique Number

Test Package





Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Certificate L2367

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