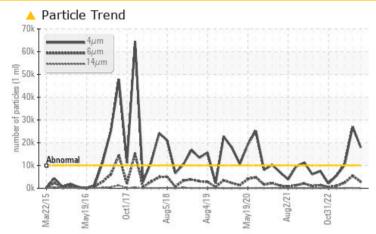


PROBLEM SUMMARY

FRICK C 14 (S/N F0127WFMNTHAA03)

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS						
Sample Status			ATTENTION	ABNORMAL	ATTENTION	
Particles >4µm	ASTM D7647	>10000	<u> </u>	27048	▲ 10194	
Particles >6µm	ASTM D7647	>2500	<u> </u>	5 541	2428	
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	A 22/20/14	2 1/18/13	

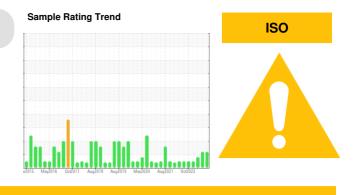
Customer Id: TYSFORMS Sample No.: USP0001863 Lab Number: 05961812 Test Package: IND 2



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

16 Jul 2023 Diag: Doug Bogart



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

13 Apr 2023 Diag: Doug Bogart

06 Feb 2023 Diag: Doug Bogart



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



view repor



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

FRICK C 14 (S/N F0127WFMNTHAA03)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 14 microns in size) 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 Rating Trend

Sample Number Client Info USP0001863 USP24	story1 history2
	I3720 USP248757
Sample Date Client Info 26 Sep 2023 16 Jul	2023 13 Apr 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 ATTENTION ABNO	RMAL ATTENTION
WEAR METALS method limit/base current his	story1 history2
Iron ppm ASTM D5185m >8 0 0	0
Chromium ppm ASTM D5185m >2 0 0	0
Nickel ppm ASTM D5185m <1	0
Titanium ppm ASTM D5185m <1 0	0
Silver ppm ASTM D5185m >2 0 0	0
Aluminum ppm ASTM D5185m >3 0 0	<1
Lead ppm ASTM D5185m >2 0 0	0
Copper ppm ASTM D5185m >8 <1	0
Tin ppm ASTM D5185m >4 <1	0
Vanadium ppm ASTM D5185m <1 0	0
Cadmium ppm ASTM D5185m <1 0	0
ADDITIVES method limit/base current his	story1 history2
Boron ppm ASTM D5185m 0 0	0
Barium ppm ASTM D5185m O O	0
MolybdenumppmASTM D5185m00	0
ManganeseppmASTM D5185m<1	<1
Magnesium ppm ASTM D5185m <1	<1
Calcium ppm ASTM D5185m <1	0
Phosphorus ppm ASTM D5185m 0 1	0
Zinc ppm ASTM D5185m 0 0	0
Sulfur ppm ASTM D5185m 50 51 57	0
CONTAMINANTS method limit/base current his	story1 history2
Silicon ppm ASTM D5185m >15 <1 0	0
Sodium ppm ASTM D5185m <1	0
Potassium ppm ASTM D5185m >20 1 <1	0
Water % ASTM D6304 >0.01 0.007 0.01	0.008
ppm Water ppm ASTM D6304 >100 75.4 112	
FLUID CLEANLINESS method limit/base current his	story1 history2
	48 🔺 10194
Particles >4µm ASTM D7647 >10000 ▲ 17973 ▲ 2704	1 2428
Particles >4μm ASTM D7647 >10000 17973 2704 Particles >6μm ASTM D7647 >2500 2818 554	
Particles >6μm ASTM D7647 >2500 Δ 2818 Δ 554	
Particles >6μm ASTM D7647 >2500 Δ 2818 Δ 554 Particles >14μm ASTM D7647 >320 28 133	57
Particles >6μm ASTM D7647 >2500 Δ 2818 Δ 554 Particles >14μm ASTM D7647 >320 28 133 Particles >21μm ASTM D7647 >80 6 23	57 7
Particles >6μm ASTM D7647 >2500 A 2818 554 Particles >14μm ASTM D7647 >320 28 133 Particles >14μm ASTM D7647 >80 6 23 Particles >21μm ASTM D7647 >20 3 1 Particles >38μm ASTM D7647 >4 1 0	57 7 1
Particles >6μm ASTM D7647 >2500 2818 554 Particles >14μm ASTM D7647 >320 28 133 Particles >21μm ASTM D7647 >80 6 23 Particles >38μm ASTM D7647 >20 3 1 Particles >71μm ASTM D7647 >4 1 0 Oil Cleanliness ISO 4406 (c) >20/18/15 21/19/12 22/2	57 7 1 0



Acid Number

0.02

(B/HO)

- Pio 0.01

0.00

250

20

E 150

10

5

7

cSt (40°C)

60 At

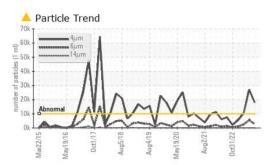
Mar22/1

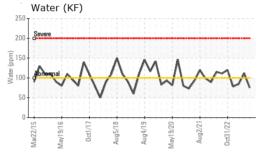
Water

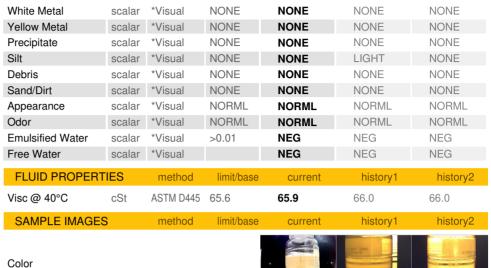
OIL ANALYSIS REPORT

method

VISUAL

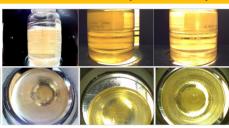






limit/base

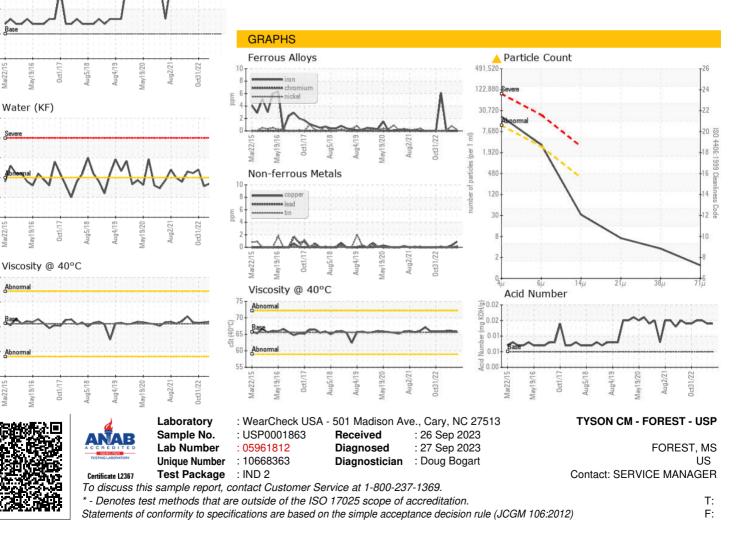
current



history1

history2

Bottom



Report Id: TYSFORMS [WUSCAR] 05961812 (Generated: 10/04/2023 20:05:43) Rev: 1

Contact/Location: SERVICE MANAGER - TYSFORMS