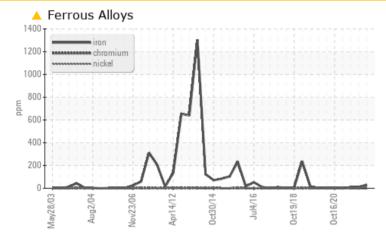


PROBLEM SUMMARY

SULLAIR TYSEMP 2 ESU (S/N 007-89001071)

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL			
Iron	ppm	ASTM D5185m	>8	<u> </u>	9	9			
Nickel	ppm	ASTM D5185m		🔺 15	1	<1			
Debris	scalar	*Visual	NONE	🔺 MODER	LIGHT	NONE			
Appearance	scalar	*Visual	NORML	🔺 HAZY	NORML	NORML			

Customer Id: IBPEMP01 Sample No.: USP0003922 Lab Number: 06026517 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	INDED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	We recommend you service the filters on this component.		
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.		

HISTORICAL DIAGNOSIS



15 Mar 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



view report

09 Sep 2022 Diag: Doug Bogart



We recommend you service the filters on this component. Resample at the next service interval to monitor.All component wear rates are normal. 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.

19 Apr 2022 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report





OIL ANALYSIS REPORT

SULLAIR TYSEMP 2 ESU (S/N 007-89001071)

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

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We were unable to perform a particle count due to a high concentration of particles present in this sample.

🔺 Wear

Iron ppm levels are abnormal. Nickel ppm levels are marginal.

Contamination

Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.



SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		USP0003922	USP244213	USP234818
Sample Date		Client Info		30 Nov 2023	15 Mar 2023	09 Sep 2022
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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	4 28	9	9
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		A 15	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m		5	<1	0
Tin	ppm	ASTM D5185m	>4	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	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		ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm			0	1	0
	ppm	ASTM D5185m		-		
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m	50	0	0	0
Sulfur	ppm	ASTM D5185m	50	0	16	6
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	<1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.002	0.004	0.003
ppm Water	ppm	ASTM D6304	>100	22	46.3	36.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647			115976	142451
Particles >6µm		ASTM D7647	>2500		1 9767	A 33897
Particles >14µm		ASTM D7647	>320		234	A 389
Particles >21µm		ASTM D7647	>80		50	20
Particles >38µm		ASTM D7647	>20		4	0
Particles >71µm		ASTM D7647	>4		0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15		▲ 24/21/15	▲ 24/22/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.012	0.015	0.013



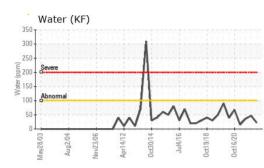
Water (KF)

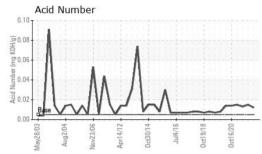
350

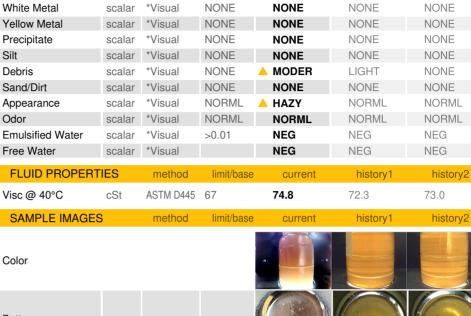
OIL ANALYSIS REPORT

method

VISUAL







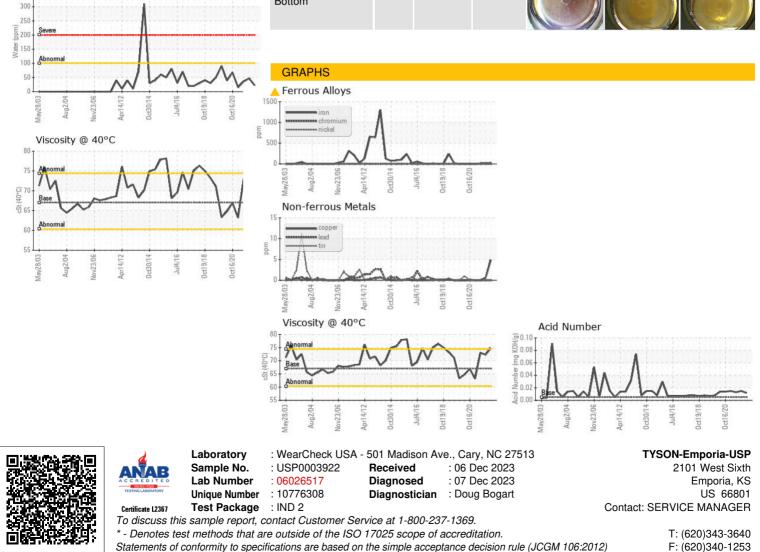
limit/base

current

history1

history2

Bottom



Report Id: IBPEMP01 [WUSCAR] 06026517 (Generated: 12/08/2023 05:44:06) Rev: 1

Contact/Location: SERVICE MANAGER - IBPEMP01