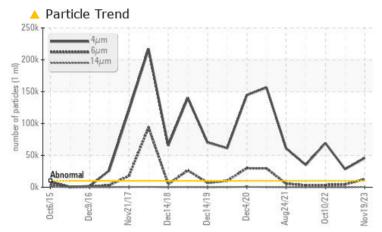


PROBLEM SUMMARY

SMISMI 27 ER4 (S/N 50427TFMPLHAA03)

Refrigeration Compressor Fluid USPI 1009-68 SC (230 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS ABNORMAL Sample Status ABNORMAL ABNORMAL Particles >4µm ASTM D7647 >10000 45840 A 28312 ▲ 69338 Particles >6µm ASTM D7647 >2500 **12704 4**345 ▲ 3545 Particles >14µm ASTM D7647 >320 626 26 5 Particles >21µm ASTM D7647 >80 **A** 87 4 1 **Oil Cleanliness** ISO 4406 (c) >20/18/15 🔺 23/21/16 🔺 22/19/12 🔺 23/19/10

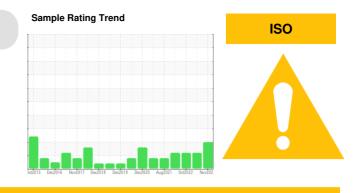
Customer Id: SMISMINP Sample No.: USP250049 Lab Number: 06015181 Test Package: IND 2



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 AC	RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description			
Change Filter			?	We recommend you service the filters on this component.			

HISTORICAL DIAGNOSIS



22 Feb 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

10 Oct 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.

28 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.







OIL ANALYSIS REPORT

SMISMI 27 ER4 (S/N 50427TFMPLHAA03)

Refrigeration Compressor Fluid USPI 1009-68 SC (230 GAL)

USPI 1009-06 SC (230 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

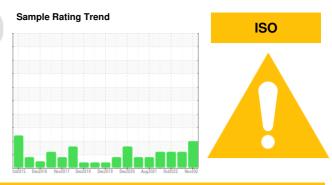
All component wear rates are normal.

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.



SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP250049	USP246720	USP239507
Sample Date		Client Info		19 Nov 2023	22 Feb 2023	10 Oct 2022
Machine Age	hrs	Client Info		111476	110850	109050
Oil Age	hrs	Client Info		224	80	0
Oil Changed		Client Info		Changed	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	10	34
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	2
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	2
Tin	ppm	ASTM D5185m	>4	0	0	<1
Vanadium	ppm	ASTM D5185m		0	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	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		1	0	1
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	5
Sulfur	ppm	ASTM D5185m	50	0	0	64
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	1
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>0.01	0.007	0.003	0.004
ppm Water	ppm	ASTM D6304	>100	77	37.4	45.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	45840	A 28312	▲ 69338
Particles >6µm		ASTM D7647	>2500	<u> </u>	4 345	▲ 3545
Particles >14µm		ASTM D7647	>320	626	26	5
Particles >21µm		ASTM D7647	>80	<u> </u>	4	1
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/21/16	A 22/19/12	▲ 23/19/10
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.01	0.013	0.015

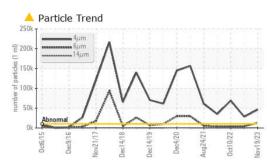


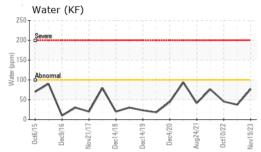
Acid Number

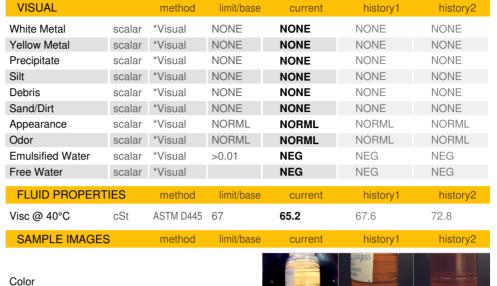
0.04

(B/H0)

OIL ANALYSIS REPORT

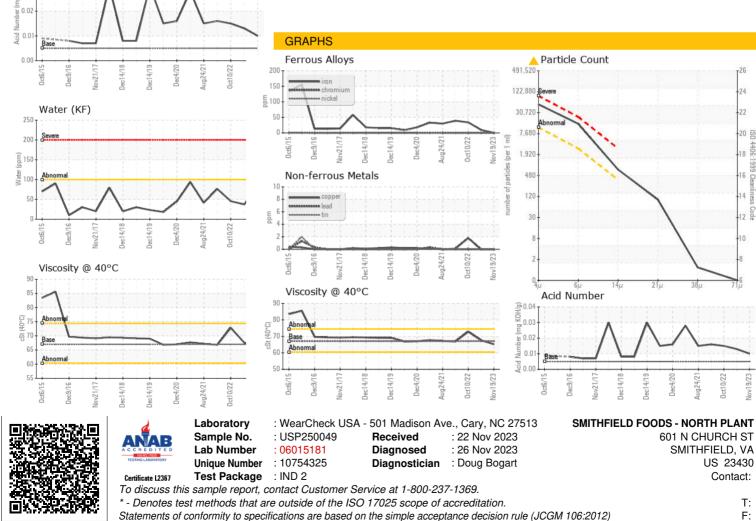








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