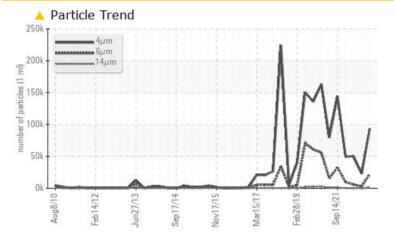


# **PROBLEM SUMMARY**

# FRICK B-2 (S/N S0054KFMPLOBA03)

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

# COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

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

PROBLEMATIC TEST RESULTS								
Sample Status		ABNORN	IAL ATTENTION	ABNORMAL				
Particles >6µm	ASTM D7647 >	2500 <b>A 22464</b>	<u> </u>	▲ 5806				
Particles >14µm	ASTM D7647 >	320 <b>A 792</b>	85	50				
Particles >21µm	ASTM D7647 >	▶80 <b>▲ 140</b>	23	7				
Oil Cleanliness	ISO 4406 (c) >	/18/15 🔺 <b>24/22/</b> 1	<b>7</b> 🔺 22/19/14	🔺 23/20/13				

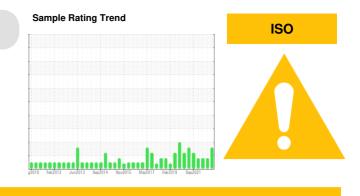
Customer Id: CARFRI Sample No.: USP0000418 Lab Number: 05936157 Test Package: IND 2



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

### HISTORICAL DIAGNOSIS



#### 22 Mar 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 report

## 12 Sep 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.

23 Feb 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.







# **OIL ANALYSIS REPORT**

#### Machine Ic FRIČK B-2 (S/N S0054KFMPLOBA03) Component

**Refrigeration Compressor** Fluid

USPI 1009-68 SC (--- LTR)

## DIAGNOSIS

#### A Recommendation

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

## Wear

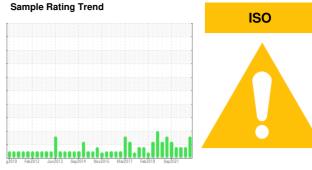
All component wear rates are normal.

#### 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	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0000418	USP245792	USP240968
Sample Date		Client Info		27 Aug 2023	22 Mar 2023	12 Sep 202
Vachine Age	mths	Client Info		0	0	0
Dil Age	mths	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMA
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	<1	<1	3
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	<1
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Lead	ppm	ASTM D5185m	>2	۰ <1	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
Tin		ASTM D5185m	>0 >4	0	0	<1
Antimony	ppm	ASTM D5185m	~7			< 1
Vanadium	ppm			0		0
	ppm	ASTM D5185m		-	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		1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		<1	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
Water	%	ASTM D6304	>0.01	0.006	0.004	0.002
opm Water	ppm	ASTM D6304	>100	69.3	46.8	24.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		93534	22810	50381
Particles >6µm		ASTM D7647	>2500	🔺 22464	<b>2</b> 748	▲ 5806
Particles >14µm		ASTM D7647	>320	<u> </u>	85	50
Particles >21µm		ASTM D7647	>80	<u> </u>	23	7
Particles >38µm		ASTM D7647	>20	3	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	<b>A</b> 24/22/17	▲ 22/19/14	▲ 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.015	0.015	0.014
ACIU NUITIDEI (AIN)	ing non ing	A011010374	0.000		0.013	

Report Id: CARFRI [WUSCAR] 05936157 (Generated: 08/29/2023 08:57:57) Rev: 1

Contact/Location: MARK NEILL - CARFRI



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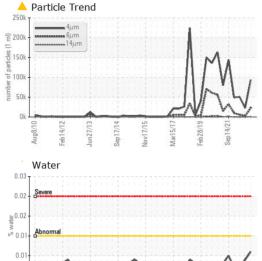
Acid Number

0.05

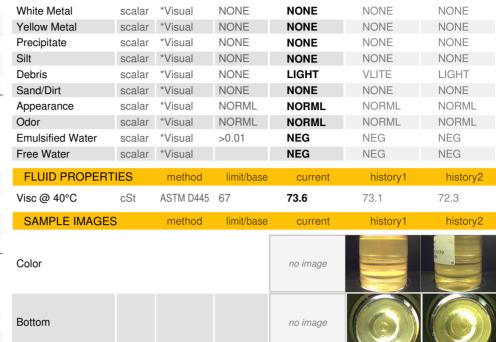
# **OIL ANALYSIS REPORT**

method

VISUAL



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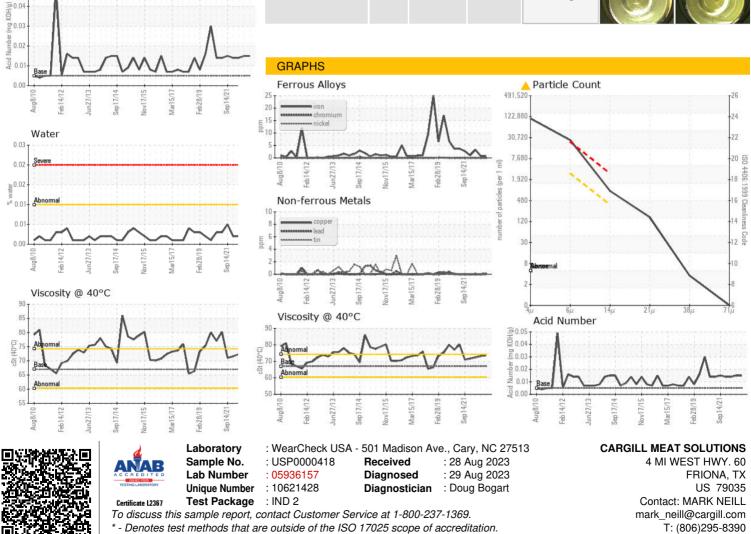


limit/base

current

history1

history2



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Contact/Location: MARK NEILL - CARFRI

F: (806)295-8376