

PROBLEM SUMMARY

Sample Rating Trend



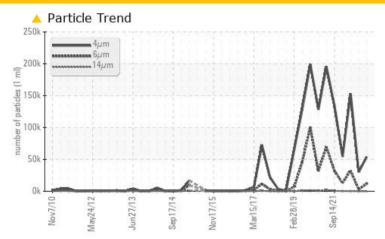
FRICK C-1 (S/N S0153KFMPL1BA3)

Refrigeration Compressor

USPI 1009-68 SC (--- LTR)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TI	EST RESULTS				
Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >6µm	ASTM D7647	>2500	11895	<u>^</u> 2999	△ 32389
Oil Cleanliness	ISO 4406 (c)	>/18/15	23/21/15	22/19/13	24/22/15

Customer Id: CARFRI Sample No.: USP0000435 Lab Number: 05936153 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

22 Mar 2023 Diag: Doug Bogart

ISO



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.



12 Sep 2022 Diag: Doug Bogart

150



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

ISO



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

Sample Rating Trend



FRICK C-1 (S/N S0153KFMPL1BA3)

Component

Refrigeration Compressor

USPI 1009-68 SC (--- LTR)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high 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.

v2810 May2012 Jun2013 Sep2814 Nov2015 Mar2017 Feb2819 Sep2021								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP0000435	USP05799722	USP240969		
Sample Date		Client Info		27 Aug 2023	22 Mar 2023	12 Sep 2022		
Machine Age	mths	Client Info		0	0	0		
Oil Age	mths	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	ATTENTION	ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>8	3	4	5		
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	0		
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1		
Lead	ppm	ASTM D5185m	>2	0	0	0		
Copper	ppm	ASTM D5185m	>8	<1	0	0		
Tin	ppm	ASTM D5185m	>4	0	0	<1		
Antimony	ppm	ASTM D5185m						
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	<1		
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		<1	0	0		
Calcium	ppm	ASTM D5185m		0	0	0		
Phosphorus	ppm	ASTM D5185m		<1	0	0		
Zinc	ppm	ASTM D5185m		2	<1	1		
Sulfur	ppm	ASTM D5185m	50	8	0	32		
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	0.008	0.003	0.003		
ppm Water	ppm	ASTM D6304	>100	83.5	37.8	27.6		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647		54053	30210	152870		
Particles >6µm		ASTM D7647	>2500	<u> </u>	<u>^</u> 2999	▲ 32389		
Particles >14µm		ASTM D7647	>320	212	65	246		
Particles >21µm		ASTM D7647	>80	20	16	24		
Particles >38µm		ASTM D7647	>20	0	0	0		
Particles >71µm		ASTM D7647	>4	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>/18/15	23/21/15	<u>^</u> 22/19/13	2 4/22/15		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		



OIL ANALYSIS REPORT







Certificate L2367

Sample No. Lab Number **Unique Number**

Test Package : IND 2

: USP0000435 : 05936153 : 10621424

Received : 29 Aug 2023 Diagnosed : Doug Bogart Diagnostician

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

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