

PROBLEM SUMMARY

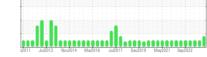
Sample Rating Trend



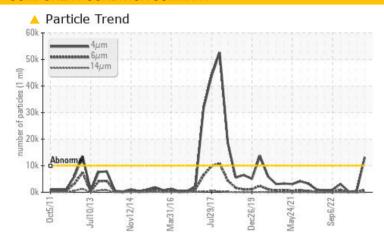
FRICK TYSCB 5 FES (S/N 2512303)

Refrigeration Compressor

USPI 1009-68 SC (--- QTS)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS										
Sample Status			ATTENTION	NORMAL	NORMAL					
Particles >4µm	ASTM D7647	>10000	13160	434	273					
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<u> </u>	16/14/10	15/13/10					

Customer Id: TYSCOU Sample No.: USP0001724 Lab Number: 05967135 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

14 Jun 2023 Diag: Doug Bogart

NORMAL



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.



14 Mar 2023 Diag: Doug Bogart

NORMAL



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.

view report

07 Dec 2022 Diag: Doug Bogart

NORMAL



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

Sample Rating Trend



FRICK TYSCB 5 FES (S/N 2512303)

Component

Refrigeration Compressor

USPI 1009-68 SC (--- QTS)

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 < 6 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.

2011 Ju2013 Nov2014 Mag2016 Ju2017 Dec2019 Mag2021 Seg2022								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP0001724	USP250147	USP249111		
Sample Date		Client Info		26 Sep 2023	14 Jun 2023	14 Mar 2023		
Machine Age	hrs	Client Info		71335	70671	69211		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ATTENTION	NORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>8	8	1	0		
Chromium	ppm	ASTM D5185m	>2	0	0	0		
Nickel	ppm	ASTM D5185m		0	0	0		
Titanium	ppm	ASTM D5185m		0	0	<1		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>3	1	0	0		
Lead	ppm	ASTM D5185m	>2	0	0	0		
Copper	ppm	ASTM D5185m	>8	0	0	0		
Tin	ppm	ASTM D5185m	>4	0	0	0		
Vanadium	ppm	ASTM D5185m		0	0	<1		
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	<1		
Manganese	ppm	ASTM D5185m		0	0	<1		
Magnesium	ppm	ASTM D5185m		0	0	0		
Calcium	ppm	ASTM D5185m		0	0	0		
Phosphorus	ppm	ASTM D5185m		0	1	0		
Zinc	ppm	ASTM D5185m		0	0	0		
Sulfur	ppm	ASTM D5185m	50	0	8	0		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	2	<1	2		
Sodium	ppm	ASTM D5185m		0	0	<1		
Potassium	ppm	ASTM D5185m	>20	<1	0	0		
Water	%	ASTM D6304		0.007	0.003	0.003		
ppm Water	ppm	ASTM D6304	>100	75.3	27.3	35.6		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	<u> 13160</u>	434	273		
Particles >6µm		ASTM D7647	>2500	771	106	66		
Particles >14µm		ASTM D7647	>320	14	9	6		
Particles >21µm		ASTM D7647		4	3	1		
Particles >38µm		ASTM D7647	>20	1	0	0		
Particles >71µm		ASTM D7647		0	0	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>21/17/11</u>	16/14/10	15/13/10		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		

Acid Number (AN)

0.015

0.014

mg KOH/g ASTM D974 0.005

0.015



OIL ANALYSIS REPORT

