

PROBLEM SUMMARY

Sample Rating Trend

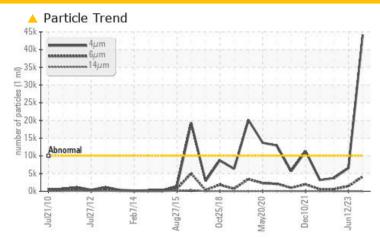
ISO

FRICK C-4 (S/N SGC23170239)

Refrigeration Compressor

FRICK COMPRESSOR OIL #3 (165 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	NORMAL	NORMAL				
Particles >4µm	ASTM D7647	>10000	44157	6547	3716				
Particles >6µm	ASTM D7647	>2500	4109	1410	645				
Oil Cleanliness	ISO 4406 (c)	>20/18/15	23/19/11	20/18/12	19/17/11				

Customer Id: AMEROC Sample No.: USP0003636 Lab Number: 06013386 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

12 Jun 2023 Diag: Jonathan Hester

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.



07 Dec 2022 Diag: Jonathan Hester

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.



20 Jun 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 C-4 (S/N SGC23170239)

Component

Refrigeration Compressor

FRICK COMPRESSOR OIL #3 (165 GAL)

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.

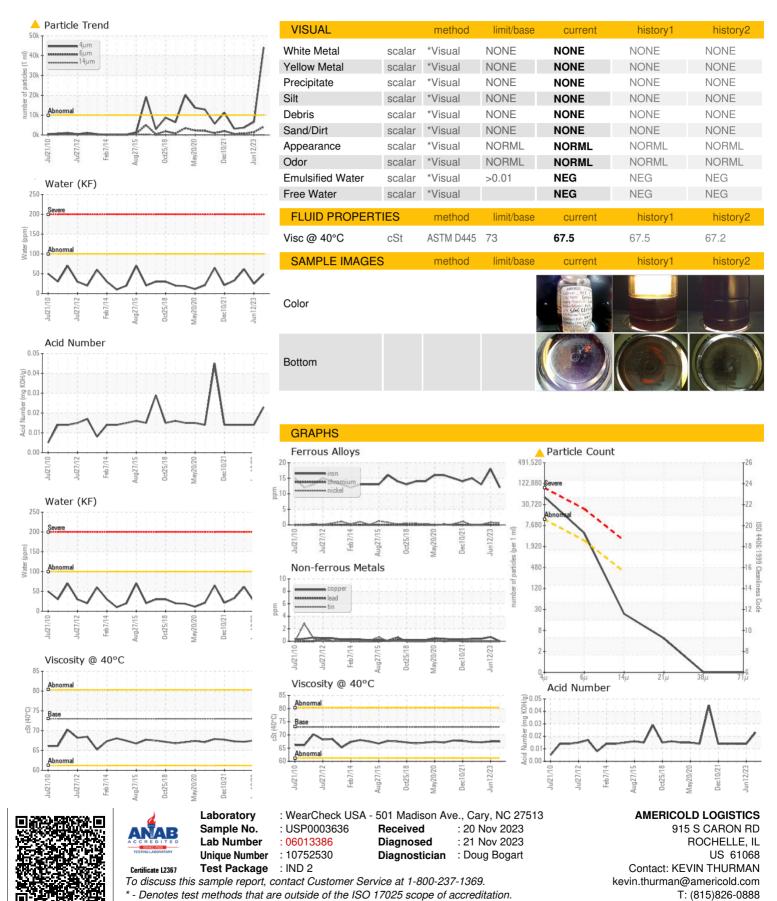
Fluid Condition

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

u2010 Ju0012 Feb2014 Aug2015 Oct2018 May2020 Dec2021 Jun02023								
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		USP0003636	USP244810	USP247984		
Sample Date		Client Info		07 Nov 2023	12 Jun 2023	07 Dec 2022		
Machine Age	hrs	Client Info		0	56714	48068		
Oil Age	hrs	Client Info		0	55592	0		
Oil Changed		Client Info		N/A	Changed	N/A		
Sample Status				ABNORMAL	NORMAL	NORMAL		
WEAR METALS		method	limit/base	current	history1	history2		
Iron	ppm	ASTM D5185m	>8	12	18	13		
Chromium	ppm	ASTM D5185m	>2	0	0	0		
Nickel	ppm	ASTM D5185m		<1	<1	0		
Titanium	ppm	ASTM D5185m		0	0	0		
Silver	ppm	ASTM D5185m	>2	0	0	0		
Aluminum	ppm	ASTM D5185m	>3	0	0	<1		
Lead	ppm	ASTM D5185m	>2	0	0	0		
Copper	ppm	ASTM D5185m	>8	0	<1	<1		
Tin	ppm	ASTM D5185m	>4	0	0	0		
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	2		
Molybdenum	ppm	ASTM D5185m		0	0	0		
Manganese	ppm	ASTM D5185m		<1	0	<1		
Magnesium	ppm	ASTM D5185m		<1	0	0		
Calcium	ppm	ASTM D5185m		1	0	0		
Phosphorus	ppm	ASTM D5185m		1	<1	0		
Zinc	ppm	ASTM D5185m		20	35	17		
Sulfur	ppm	ASTM D5185m		1204	2016	1391		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>15	<1	2	0		
Sodium	ppm	ASTM D5185m		0	0	<1		
Potassium	ppm	ASTM D5185m	>20	0	<1	0		
Water	%	ASTM D6304	>0.01	0.004	0.002	0.006		
ppm Water	ppm	ASTM D6304	>100	49.0	24.4	61.6		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	44157	6547	3716		
Particles >6µm		ASTM D7647	>2500	4109	1410	645		
Particles >14μm		ASTM D7647	>320	20	28	14		
Particles >21µm		ASTM D7647	>80	4	6	2		
Particles >38μm		ASTM D7647	>20	0	0	0		
Particles >71µm		ASTM D7647	>4	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>23/19/11</u>	20/18/12	19/17/11		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D974		0.023	0.014	0.014		



OIL ANALYSIS REPORT



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

F: (815)562-1081