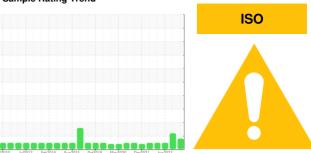


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

FRICK C-4 (S/N SGC23170239)

Refrigeration Compressor

FRICK COMPRESSOR OIL #3 (165 GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 6 microns in size) present in the oil.

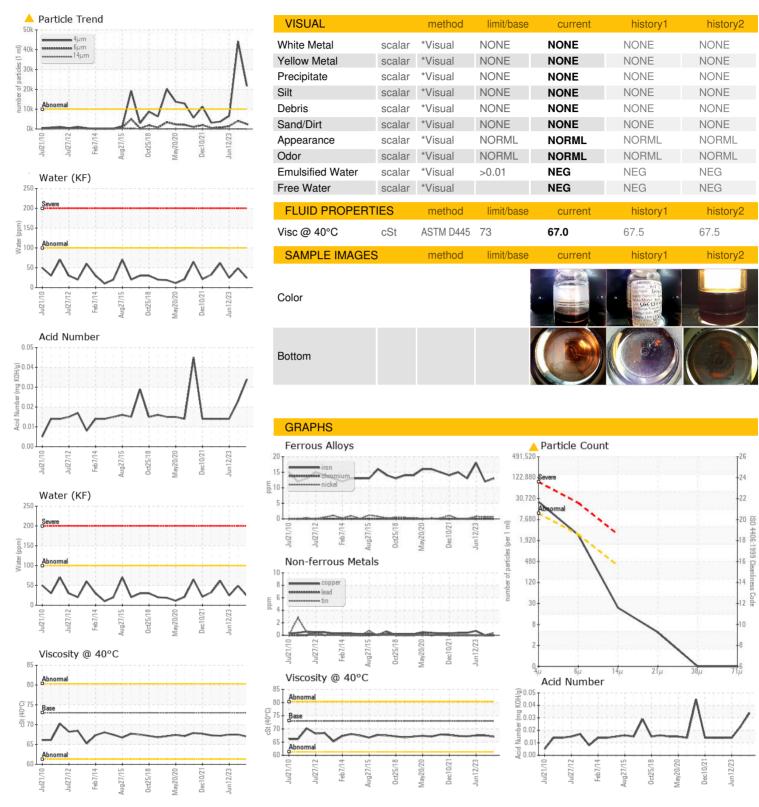
Fluid Condition

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

		u12010 Ju120	112 Feb2014 Aug2015	Oct2018 May2020 Dec2021	Jun2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0011422	USP0003636	USP244810
Sample Date		Client Info		08 May 2024	07 Nov 2023	12 Jun 2023
Machine Age	hrs	Client Info		51825	0	56714
Oil Age	hrs	Client Info		0	0	55592
Oil Changed		Client Info		N/A	N/A	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	13	12	18
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
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	<1
Tin	ppm	ASTM D5185m	>4	<1	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		1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		1	<1	0
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	1	0
Phosphorus	ppm	ASTM D5185m		0	1	<1
Zinc	ppm	ASTM D5185m		11	20	35
Sulfur	ppm	ASTM D5185m		1441	1204	2016
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	2
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water	%	ASTM D6304	>0.01	0.002	0.004	0.002
ppm Water	ppm	ASTM D6304	>100	24	49.0	24.4
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	21673	<u>44157</u>	6547
Particles >6µm		ASTM D7647	>2500	2445	4109	1410
Particles >14µm		ASTM D7647	>320	20	20	28
Particles >21µm		ASTM D7647	>80	4	4	6
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>^</u> 22/18/11	<u>^</u> 23/19/11	20/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		0.034	0.023	0.014



OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No. Lab Number : 06177199 Unique Number : 11023252

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0011422 Received **Tested**

: 14 May 2024 Diagnosed

: 14 May 2024 - Doug Bogart

: 13 May 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

kevin.thurman@americold.com T: (815)826-0888

* - 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)

F: (815)562-1081 Contact/Location: KEVIN THURMAN - AMEROC

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