

# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# FRICK TYSVIE HSC-1 (S/N S0396MFMPTHAA3)

Component

**Refrigeration Compressor** 

USPI ALT-68 SC (--- GAL)

# DIAGNOSIS

## 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**

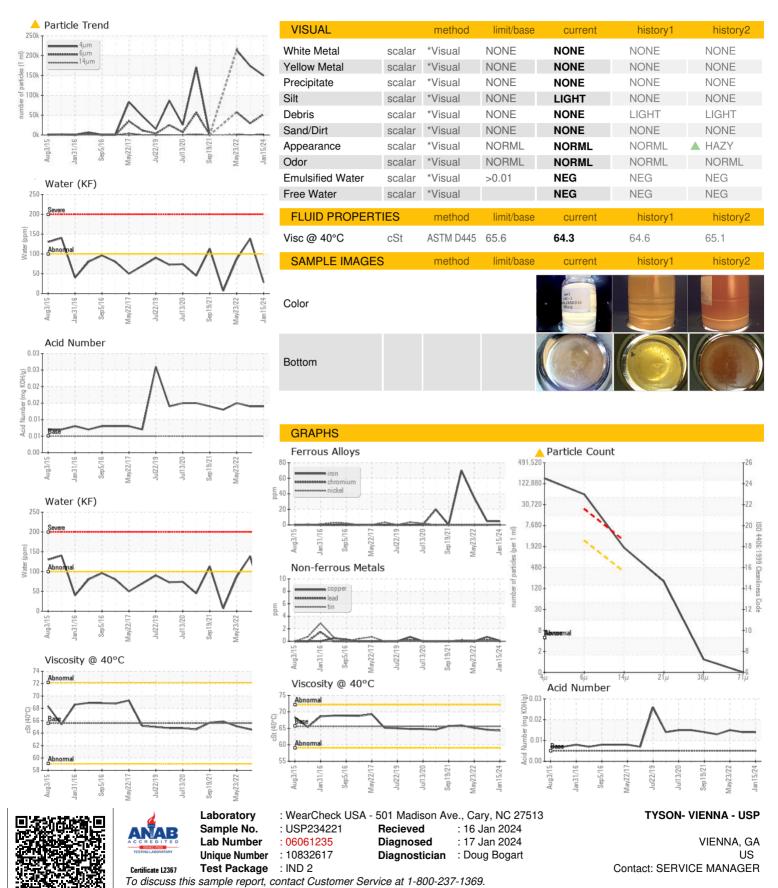
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		wg2015 Jan2i	016 Sep2016 May2017	Jul2019 Jul2020 Sep2021 May	2022 Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP234221	USP231674	USP230195
Sample Date		Client Info		15 Jan 2024	08 Sep 2022	23 May 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	5	35
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>3	0	<1	<1
Lead	ppm	ASTM D5185m	>2	0	<1	0
Copper	ppm	ASTM D5185m	>8	<1	<1	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	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
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	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	2	6
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	0	0
Water	%	ASTM D6304	>0.01	0.003	0.013	0.008
ppm Water	ppm	ASTM D6304	>100	28	138.8	86.8
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647		149724	173944	214093
Particles >6µm		ASTM D7647	>2500	<u>\$2351</u>	<b>29274</b>	<u>▲</u> 57418
Particles >14µm		ASTM D7647	>320	<u> </u>	250	<u> </u>
Particles >21µm		ASTM D7647	>80	<u> </u>	18	<u></u> 116
Particles >38µm		ASTM D7647	>20	1	1	2
Particles >71μm		ASTM D7647	>4	0	0	0
						A 05/00/40
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u>4</u> 24/23/18	<u>\$\text{\Delta}\$ 25/22/15</u>	<u>\$\text{\Delta}\$ 25/23/18</u>

Contact/Location: SERVICE MANAGER - TYSVIE



# **OIL ANALYSIS REPORT**



\* - 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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