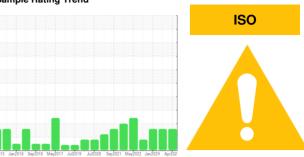


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

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

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.

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

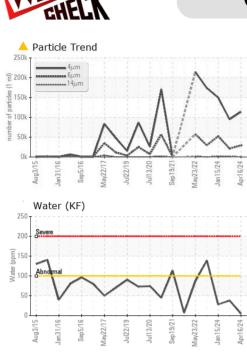
### **Fluid Condition**

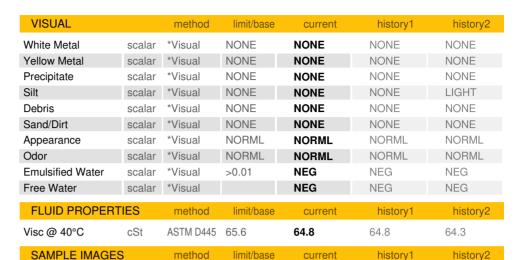
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		ug2015 Jan201	6 Sep2016 May2017 Jul20	19 Jul2020 Sep2021 May2022 Jai	2024 Apr202	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0006482	USP0006776	USP234221
Sample Date		Client Info		16 Apr 2024	15 Apr 2024	15 Jan 2024
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	3	2	5
Chromium	ppm	ASTM D5185m	>2	<1	0	<1
Nickel	ppm	ASTM D5185m		<1	1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	2	<1	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	<1	2	<1
Tin	ppm	ASTM D5185m	>4	<1	<1	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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		<1	0	0
Manganese	ppm	ASTM D5185m		0	1	0
Magnesium	ppm	ASTM D5185m		<1	<1	0
Calcium	ppm	ASTM D5185m		<1	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	50	0	19	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	0
Sodium	ppm	ASTM D5185m		<1	2	0
Potassium	ppm	ASTM D5185m	>20	1	2	<1
Water	%	ASTM D6304	>0.01	0.001	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	5	38	28
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647		113789	94850	149724
Particles >6µm		ASTM D7647		<u>^</u> 28912	<u>^</u> 21254	<u>▲</u> 52351
Particles >14μm		ASTM D7647	>320	<u>^</u> 722	<u>^</u> 769	<u> </u>
Particles >21µm		ASTM D7647		<u>^</u> 88	<u>119</u>	<u>▲</u> 170
Particles >38µm		ASTM D7647	>20	0	1	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>/18/15	<u>24/22/17</u>	<u>4</u> 24/22/17	<u>4</u> 24/23/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.014

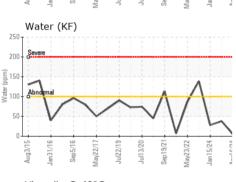


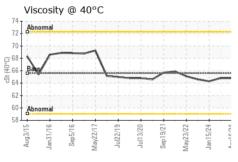
## OIL ANALYSIS REPORT





Acid Number 0.03 0.00



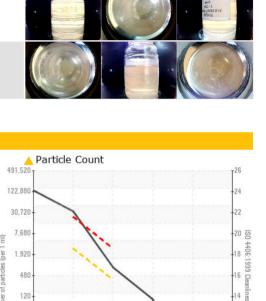


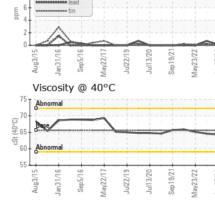
**Bottom** 

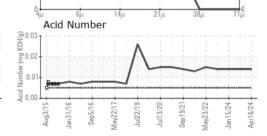
Color

**GRAPHS** Ferrous Alloys

Non-ferrous Metals











Certificate 12367

Laboratory Sample No.

Test Package : IND 2

Lab Number : 06156025 Unique Number : 10991448

: USP0006482

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 22 Apr 2024 Tested : 23 Apr 2024

Diagnosed : 24 Apr 2024 - Jonathan Hester

**TYSON- VIENNA - USP** 

LIS Contact: SERVICE MANAGER

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

 $^st$  - 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)

T:

F:

VIENNA, GA