

# **OIL ANALYSIS REPORT**

# Machine Id FRICK TYSVIE MSC-1 (S/N S0394MFMPTHAA3)

Refrigeration Compressor

USPI ALT-68 SC (--- GAL)

## DIAGNOSIS

### A 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.

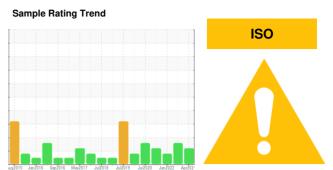
## Fluid Condition

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

SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		USP234226	USP230200	USP22781
Sample Date		Client Info		15 Apr 2024	23 May 2022	31 Jan 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	0	<1	<1
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		0	1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	0
Aluminum	ppm	ASTM D5185m	>3	<1	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	2	<1	0
Tin	ppm	ASTM D5185m	>4	- <1	<1	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	1.1	method	limit/base	current	history1	history2
Boron	nnm	ASTM D5185m		0	<1	0
Barium	ppm ppm	ASTM D5185m		0	0	0
Molybdenum		ASTM D5185m		0	0	0
Manganese	ppm ppm	ASTM D5185m		1	0	0
Magnesium		ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		، <1	0	0
	ppm	ASTM D5185m		< 1 0	1	0
Phosphorus Zinc	ppm			-	0	0
-	ppm	ASTM D5185m	50	0 12		-
Sulfur	ppm	ASTM D5185m	50		15	13
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm		>15	<1	<1	1
Sodium	ppm	ASTM D5185m		2	0	0
Potassium	ppm	ASTM D5185m	>20	3	0	0
Water	%	ASTM D6304	>0.01	0.007	0.008	0.001
ppm Water	ppm	ASTM D6304	>100	77	85.8	5.4
FLUID CLEANLIN	IESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>10000	<b>A</b> 79219	▲ 54155	▲ 37541
Particles >6µm		ASTM D7647		<u> </u>	<u>▲</u> 17161	▲ 7852
Particles >14µm		ASTM D7647	>320	43	<b>4</b> 96	186
Particles >21µm		ASTM D7647		3	43	32
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 23/21/13	▲ 23/21/16	<b>2</b> 2/20/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN) 41:29) Rev: 1	mg KOH/g	ASTM D974	0.005 Co	0.057 ntact/Location:	0.014 SERVICE MAN	0.014 AGER - TYSVI

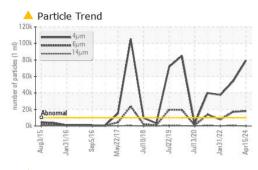
Report Id: TYSVIE [WUSCAR] 06150494 (Generated: 04/18/2024 00:41:29) Rev: 1

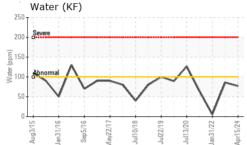
Contact/Location: SERVICE MANAGER - TYSVIE

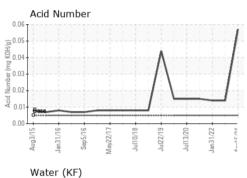


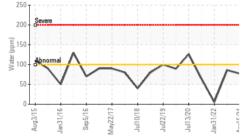


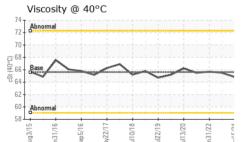
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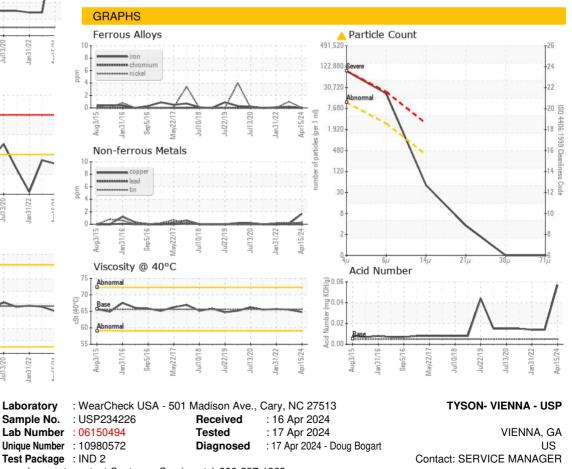






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	64.8	65.5	65.7
SAMPLE IMAGES method		limit/base	current	history1	history2	
Color						SOC
				(A)		

Bottom



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

\* - 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:

Certificate 12367

Contact/Location: SERVICE MANAGER - TYSVIE