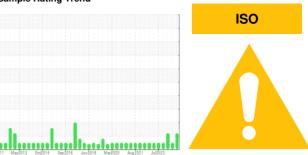


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# FRICK TYSWAT 4 FRK (S/N S0303HFMPTOAA3)

Refrigeration Compressor

USPI 1009-68 SC (--- 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.

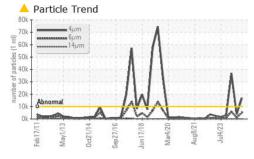
### **Fluid Condition**

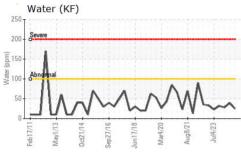
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

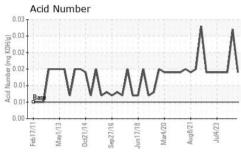
		62011 May20	13 Oct2014 Sep2016	Jun2018 Mar2020 Aug2021 .	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012319	USP0006230	USP0007616
Sample Date		Client Info		14 Jul 2024	24 Mar 2024	26 Feb 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	2	0	<1
Chromium	ppm	ASTM D5185m	>2	0	0	<1
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m	>2	0	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	0	0	0
Copper	ppm	ASTM D5185m	>8	0	0	0
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	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	<1	0
Phosphorus	ppm	ASTM D5185m		0	0	0
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	1	<1
Sodium	ppm	ASTM D5185m		1	0	0
Potassium	ppm	ASTM D5185m	>20	1	<1	<1
Water	%	ASTM D6304	>0.01	0.002	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	25	39	28
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<b>16854</b>	3881	▲ 36816
Particles >6µm		ASTM D7647	>2500	<u></u> 5119	1095	▲ 5876
Particles >14µm		ASTM D7647	>320	71	39	58
Particles >21µm		ASTM D7647	>80	4	6	4
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>21/20/13</b>	19/17/12	<u>22/20/13</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.027	0.014

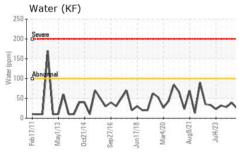


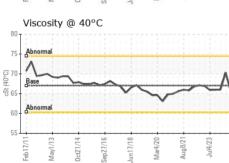
# **OIL ANALYSIS REPORT**

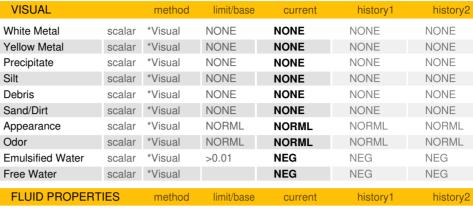












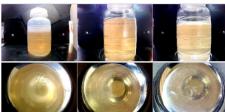
					,	,
Visc @ 40°C	cSt	ASTM D445	67	65.5	70.3	66.0

SAMPLE IMAGES	method	limit/base	current	history1

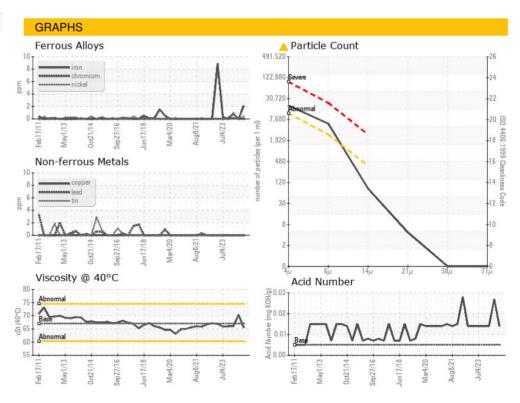
Color

S





historv2







Laboratory Sample No. Lab Number

: USP0012319 : 06236880 Unique Number : 11125714

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received : 15 Jul 2024 **Tested** : 17 Jul 2024

TYSON - WATERLOO - USP CODE TYSWATPRO

501 N Elk Run Road Waterloo, IA US 50703

T: (319)236-9328

Contact: ED ALBERT

Diagnosed : 17 Jul 2024 - Jonathan Hester

Test Package : IND 2 Certificate 12367 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)

F: (319)236-9393 Contact/Location: ED ALBERT - IBPWAT01