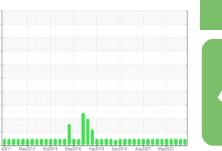


# **OIL ANALYSIS REPORT**

Sample Rating Trend



**NORMAL** 



Machine Id

# FRICK TYSWAT 11 FR (S/N S0098HFMFTOAA3)

Refrigeration Compressor

USPI 1009-68 SC (--- GAL)

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

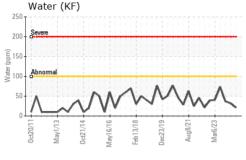
### **Fluid Condition**

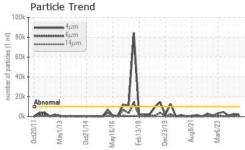
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

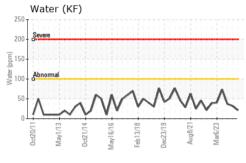
2011 May2013 Oct2014 May2016 Feb2018 Oct2013 Aug2021 Mar2023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0012326	USP0007607	USP0001251
Sample Date		Client Info		14 Jul 2024	26 Feb 2024	12 Oct 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	1	2	3
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m		0	0	0
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	<1
Magnesium	ppm	ASTM D5185m		0	<1	0
Calcium	ppm	ASTM D5185m		0	0	1
Phosphorus	ppm	ASTM D5185m		0	0	<1
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m	50	0	0	11
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	0	<1
Sodium	ppm	ASTM D5185m		1	0	<1
Potassium	ppm	ASTM D5185m	>20	<1	1	0
Water	%	ASTM D6304	>0.01	0.002	0.003	0.003
ppm Water	ppm	ASTM D6304	>100	21	32	36.9
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	2205	2599	971
Particles >6µm		ASTM D7647	>2500	711	672	357
Particles >14μm		ASTM D7647	>320	22	17	20
Particles >21µm		ASTM D7647	>80	1	3	2
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71μm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/17/12	19/17/11	17/16/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974	0.005	0.014	0.014	0.013

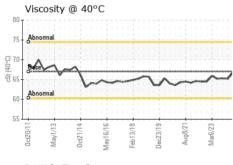


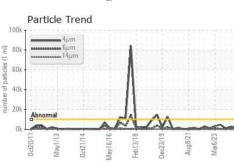
## **OIL ANALYSIS REPORT**

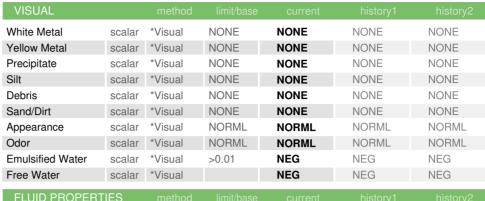










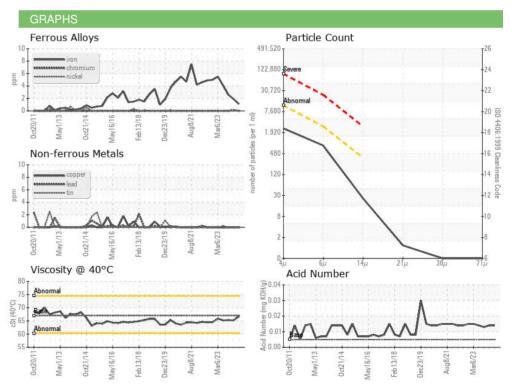


I LOID I HOI LITT	ILO					
Visc @ 40°C	cSt	ASTM D445	67	66.7	65.2	65.3

SAMPLE IMAGES	method	iimivbase	
Color			











Certificate 12367

Laboratory Sample No. Lab Number

Test Package : IND 2

: 06236887 Unique Number : 11125721

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USP0012326

Received Tested Diagnosed

: 15 Jul 2024 : 17 Jul 2024

: 17 Jul 2024 - Jonathan Hester

TYSON - WATERLOO - USP CODE TYSWATPRO 501 N Elk Run Road Waterloo, IA

> US 50703 Contact: ED ALBERT

> > T: (319)236-9328

F: (319)236-9393

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)