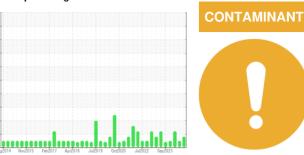


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# FRICK FRICK 177H COMPRESSOR 2 (S/N SO873RFMPLHAA03)

Refrigeration Compressor

USPI ALT-68 SC (165 GAL)

#### DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

## Contamination

Appearance is hazy. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

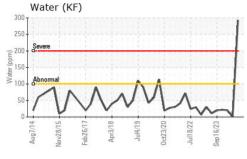
## **Fluid Condition**

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

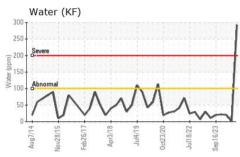
gZ014 NexZ015 Feb.Z017 AprZ018 JulZ019 Oct2020 JulZ012 Sep.Z023						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP0013066	USP0006085	USP0004545
Sample Date		Client Info		20 Jun 2024	17 Mar 2024	28 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	NORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	0	0	0
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m	>2	<1	0	0
Aluminum	ppm	ASTM D5185m	>3	0	0	0
Lead	ppm	ASTM D5185m	>2	<1	0	0
Copper	ppm	ASTM D5185m	>8	<1	0	0
Tin	ppm	ASTM D5185m	>4	<1	<1	<1
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		<1	0	0
Magnesium	ppm	ASTM D5185m		0	<1	1
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		2	0	1
Zinc	ppm	ASTM D5185m		<1	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		0	0	1
Potassium	ppm	ASTM D5185m	>20	1	<1	1
Water	%	ASTM D6304	>0.01	0.029	0.001	0.002
ppm Water	ppm	ASTM D6304	>100	293	1	20
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1778	1668	18979
Particles >6μm		ASTM D7647	>2500	575	456	4925
Particles >14µm		ASTM D7647	>320	16	21	131
Particles >21µm		ASTM D7647		1	6	18
Particles >38µm		ASTM D7647	>20	0	0	1
Particles >71µm		ASTM D7647		0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	18/16/11	18/16/12	21/19/14
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

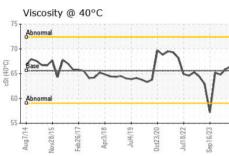


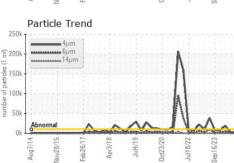
## **OIL ANALYSIS REPORT**



Jik Abnomal		μm jμm			
Abnormal	******************	4μm		Λ	
Abnormal					
Abnormal					
	Abnormal		 	V	1







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	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	HAZY	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.01	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	TIES	method	limit/base	current	history1	history2

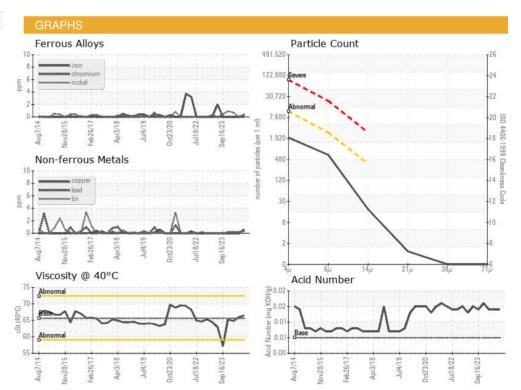
FLUID PROPER	THES	metnoa			nistory i	nistory2
Visc @ 40°C	cSt	ASTM D445	65.6	66.49	65.9	64.8

SAMPLE	IMAGES	
// (IVII LL	IIVI/ (GEO	

Color

**Bottom** 









Certificate 12367

Sample No.

Laboratory Lab Number : 06218819

: USP0013066 Unique Number : 11097016

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 Jun 2024 **Tested** : 27 Jun 2024

Diagnosed : 27 Jun 2024 - Doug Bogart TYSON PF-HUTCHINSON-USP

521 SOUTH MAIN HUTCHINSON, KS US 67501

T: (620)669-8761

F: (620)669-8762

Contact: ERIC JOHNSON

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)

Report Id: TYSHUT [WUSCAR] 06218819 (Generated: 06/30/2024 17:47:29) Rev: 1

Test Package : IND 2

Contact/Location: ERIC JOHNSON - TYSHUT