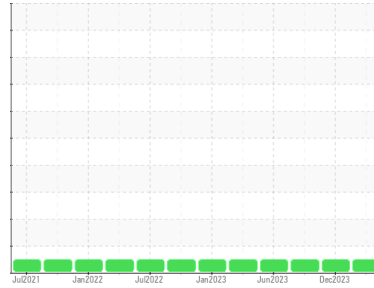




# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**FRICK FRICK 6 (S/N 11552A01037625)**

Component  
**Refrigeration Compressor**  
Fluid  
**USPI ALT-68 SC (--- GAL)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

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.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>USP0006092</b>	USP0004544	USP0001957
Sample Date	Client Info	<b>17 Mar 2024</b>	28 Dec 2023	18 Sep 2023
Machine Age	hrs Client Info	<b>0</b>	0	0
Oil Age	hrs Client Info	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm ASTM D5185m	>8	<b>5</b>	2	3
Chromium ppm ASTM D5185m	>2	<b>0</b>	0	0
Nickel ppm ASTM D5185m		<b>0</b>	<1	<1
Titanium ppm ASTM D5185m		<b>0</b>	0	0
Silver ppm ASTM D5185m	>2	<b>0</b>	0	0
Aluminum ppm ASTM D5185m	>3	<b>0</b>	0	0
Lead ppm ASTM D5185m	>2	<b>0</b>	0	0
Copper ppm ASTM D5185m	>8	<b>0</b>	0	0
Tin ppm ASTM D5185m	>4	<b>0</b>	<1	0
Vanadium ppm ASTM D5185m		<b>0</b>	0	0
Cadmium ppm ASTM D5185m		<b>0</b>	0	0

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm ASTM D5185m		<b>0</b>	0	0
Barium ppm ASTM D5185m		<b>0</b>	0	0
Molybdenum ppm ASTM D5185m		<b>0</b>	0	0
Manganese ppm ASTM D5185m		<b>0</b>	0	0
Magnesium ppm ASTM D5185m		<b>0</b>	1	0
Calcium ppm ASTM D5185m		<b>0</b>	0	0
Phosphorus ppm ASTM D5185m		<b>0</b>	1	0
Zinc ppm ASTM D5185m		<b>0</b>	0	0
Sulfur ppm ASTM D5185m	50	<b>0</b>	0	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	<1	<1
Sodium ppm ASTM D5185m		<b>0</b>	1	0
Potassium ppm ASTM D5185m	>20	<b>0</b>	1	1
Water % ASTM D6304	>0.01	<b>0.001</b>	0.002	0.001
ppm Water ppm ASTM D6304	>100	<b>5</b>	22	7.3

## FLUID CLEANLINESS

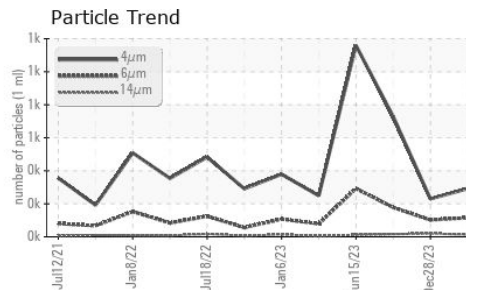
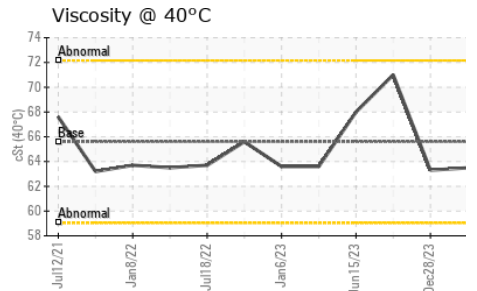
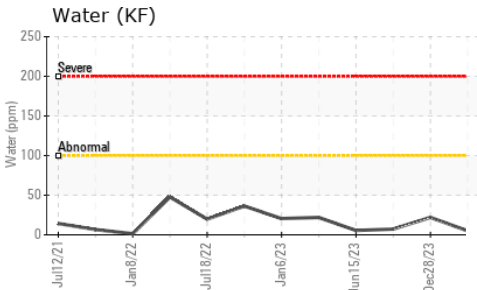
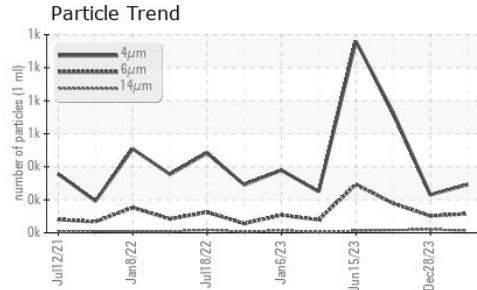
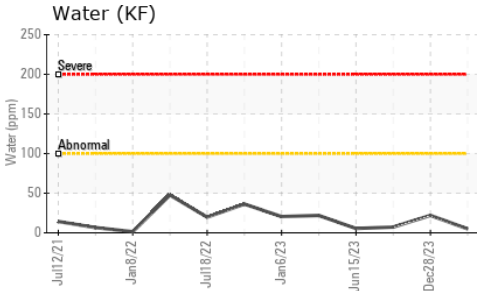
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647		<b>292</b>	230	729
Particles >6µm ASTM D7647	>2500	<b>115</b>	102	178
Particles >14µm ASTM D7647	>320	<b>13</b>	20	16
Particles >21µm ASTM D7647	>80	<b>3</b>	5	5
Particles >38µm ASTM D7647	>20	<b>1</b>	0	1
Particles >71µm ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>--/18/15	<b>15/14/11</b>	15/14/11	17/15/11

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974	0.005	<b>0.014</b>	0.014	0.012



# OIL ANALYSIS REPORT

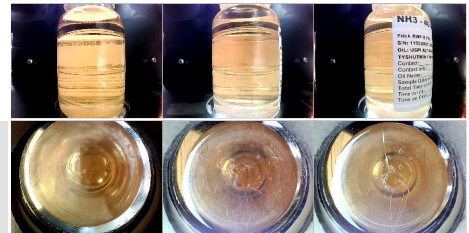
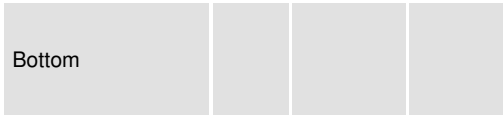


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

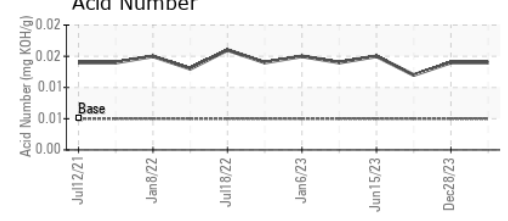
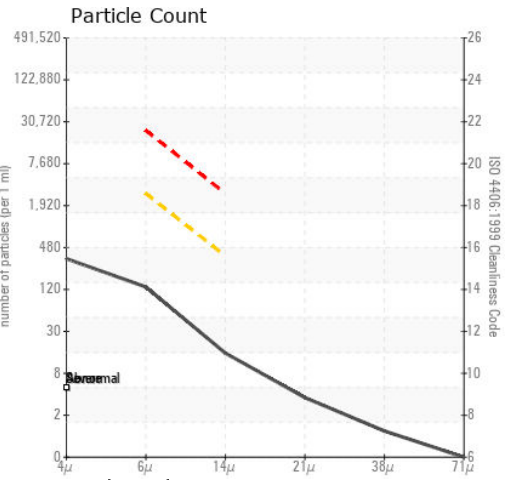
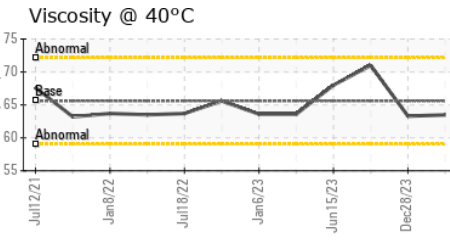
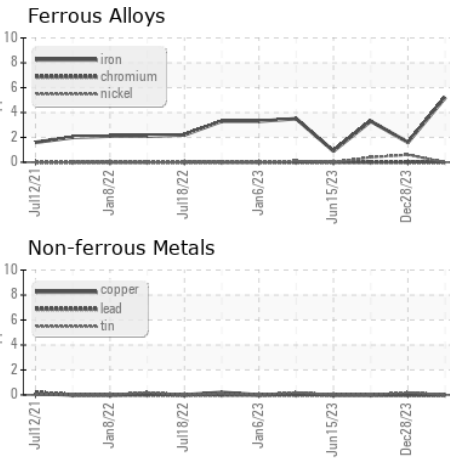
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	63.3	71.0

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0006092  
**Lab Number** : 06121632  
**Unique Number** : 10930465  
**Test Package** : IND 2  
**Received** : 18 Mar 2024  
**Tested** : 21 Mar 2024  
**Diagnosed** : 21 Mar 2024 - Doug Bogart

**TYSON PF-HUTCHINSON-USP**  
 521 SOUTH MAIN  
 HUTCHINSON, KS  
 US 67501  
 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)