



# OIL ANALYSIS REPORT

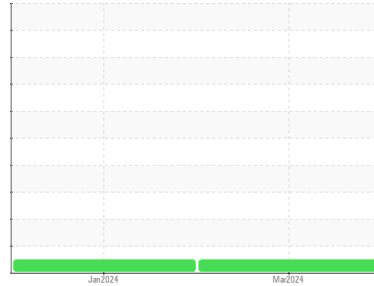
Sample Rating Trend

**NORMAL**



Machine Id  
**HS-2 (S/N 26711-001-1-01-11)**

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>USP0008312</b>	USP0004526	---
Sample Date	Client Info	<b>24 Mar 2024</b>	01 Jan 2024	---
Machine Age	hrs Client Info	<b>3272</b>	0	---
Oil Age	hrs Client Info	<b>0</b>	0	---
Oil Changed	Client Info	<b>N/A</b>	N/A	---
Sample Status		<b>NORMAL</b>	NORMAL	---

## WEAR METALS

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

## ADDITIVES

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

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm ASTM D5185m	>15	<b>&lt;1</b>	2	---
Sodium ppm ASTM D5185m		<b>&lt;1</b>	1	---
Potassium ppm ASTM D5185m	>20	<b>0</b>	<1	---
Water % ASTM D6304	>0.01	<b>0.001</b>	0.001	---
ppm Water ppm ASTM D6304	>100	<b>12</b>	9	---

## FLUID CLEANLINESS

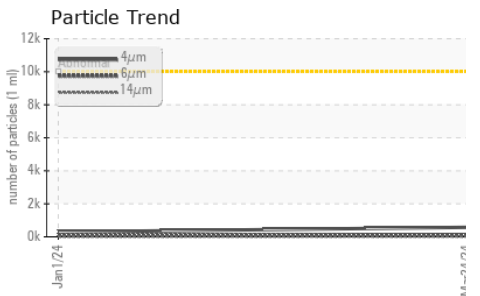
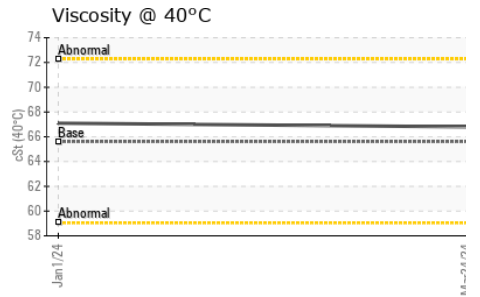
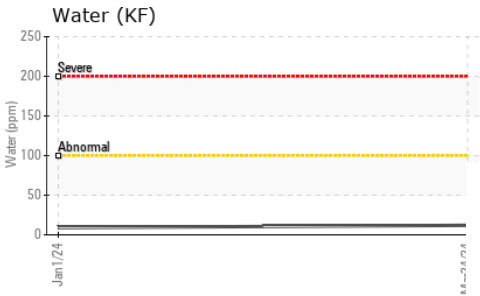
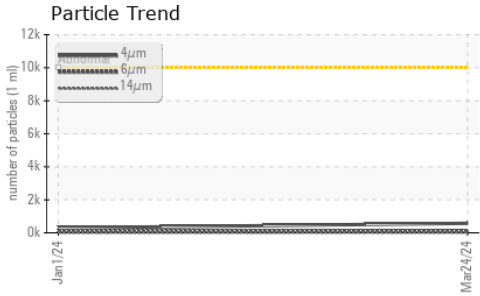
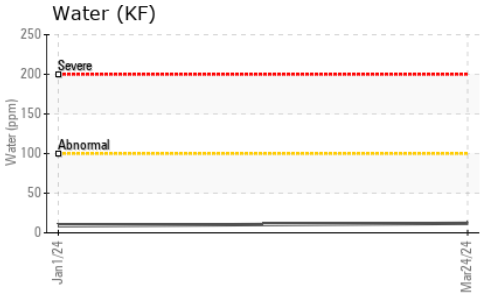
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>576</b>	294	---
Particles >6µm ASTM D7647	>2500	<b>135</b>	71	---
Particles >14µm ASTM D7647	>320	<b>12</b>	5	---
Particles >21µm ASTM D7647	>80	<b>3</b>	1	---
Particles >38µm ASTM D7647	>20	<b>0</b>	0	---
Particles >71µm ASTM D7647	>4	<b>0</b>	0	---
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>16/14/11</b>	15/13/10	---

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974	0.005	<b>0.027</b>	0.014	---



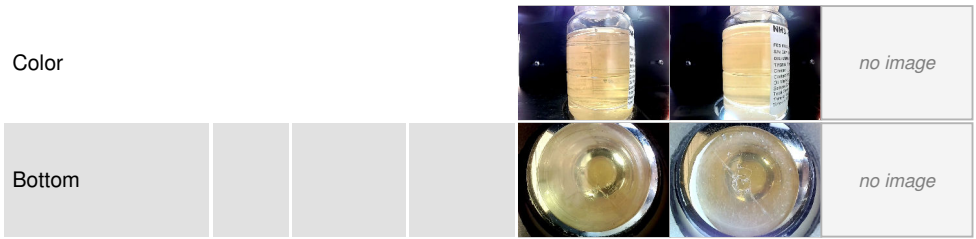
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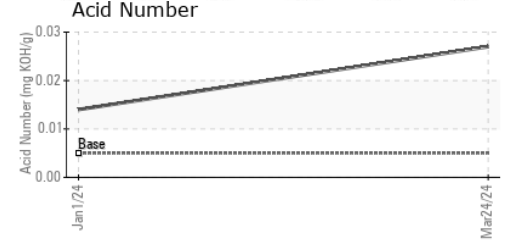
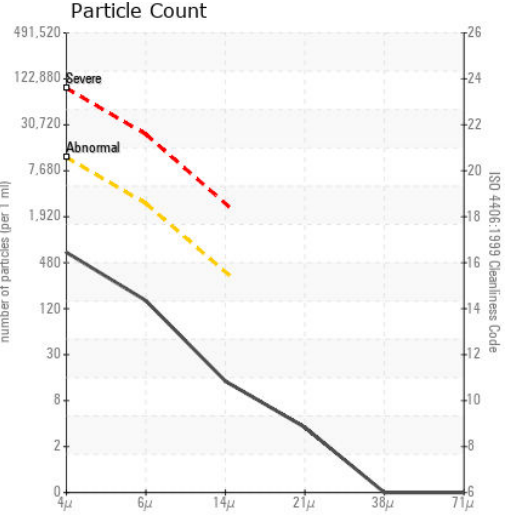
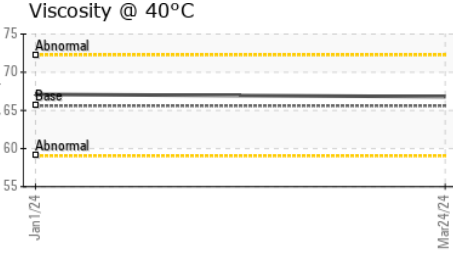
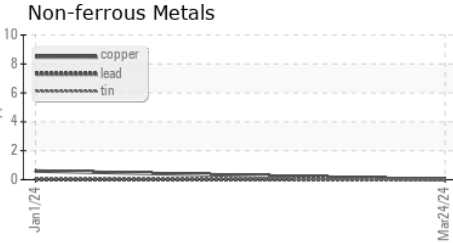
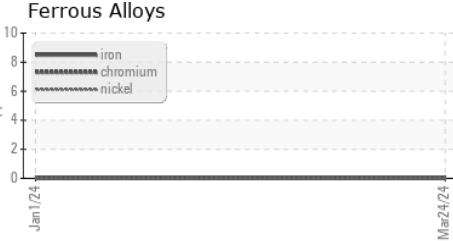
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	65.6	<b>66.8</b>	67.1	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0008312      **Received** : 28 Mar 2024  
**Lab Number** : **06132070**      **Tested** : 29 Mar 2024  
**Unique Number** : 10951535      **Diagnosed** : 29 Mar 2024 - Doug Bogart  
**Test Package** : IND 2

**TYSON FOODS - RINGGOLD VA**  
 1725 CANE CREEK PKWY  
 RINGGOLD, VA  
 US 24586  
 Contact: Service Manager

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)