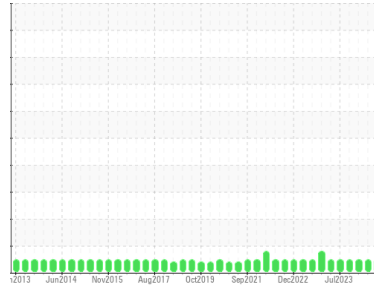




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**SLAUGHTER**

Machine Id

**SULLAIR TYSAMAS 3 SUL (S/N 007-87000138)**

Component

**Refrigeration Compressor**

Fluid

**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 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>USP0013204</b>	USP0006116	USP0003560	
Sample Date	Client Info	<b>12 Jun 2024</b>	05 Mar 2024	15 Nov 2023	
Machine Age	hrs	Client Info	<b>17299</b>	15277	12717
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>0</b>	3	---
Chromium	ppm	ASTM D5185m	>2	<b>0</b>	<1	---
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>	0	---
Lead	ppm	ASTM D5185m	>2	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	0	---
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>&lt;1</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	---
Calcium	ppm	ASTM D5185m		<b>0</b>	<1	---
Phosphorus	ppm	ASTM D5185m		<b>0</b>	0	---
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>1</b>	0	---
Sodium	ppm	ASTM D5185m		<b>1</b>	1	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	0	---
Water	%	ASTM D6304	>0.01	<b>0.002</b>	0.001	---
ppm Water	ppm	ASTM D6304	>100	<b>18</b>	6	---

## FLUID CLEANLINESS

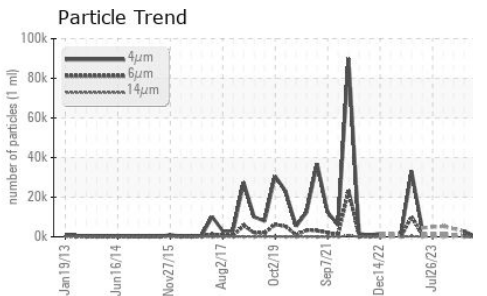
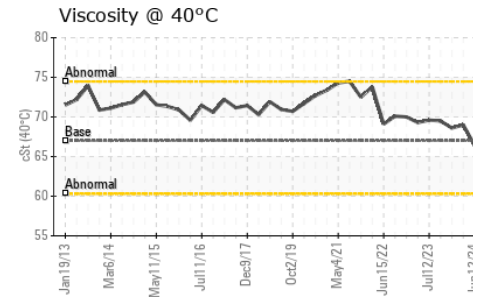
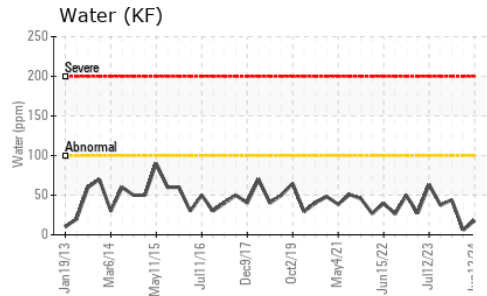
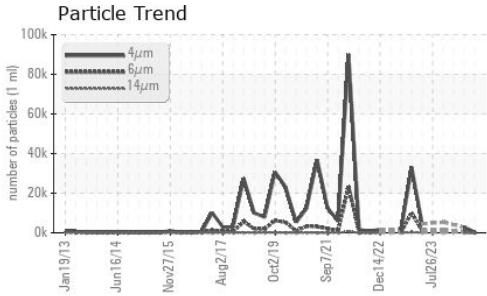
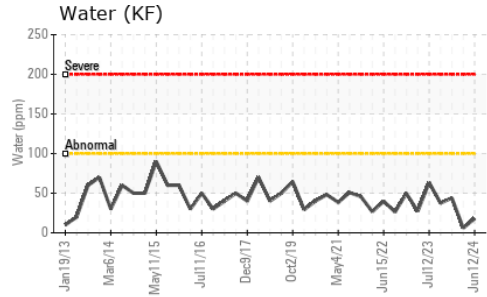
method	limit/base	current	history1	history2		
Particles >4µm	ASTM D7647			<b>367</b>	2819	---
Particles >6µm	ASTM D7647	>2500		<b>112</b>	597	---
Particles >14µm	ASTM D7647	>320		<b>3</b>	32	---
Particles >21µm	ASTM D7647	>80		<b>0</b>	7	---
Particles >38µm	ASTM D7647	>20		<b>0</b>	1	---
Particles >71µm	ASTM D7647	>4		<b>0</b>	0	---
Oil Cleanliness	ISO 4406 (c)	>--/18/15		<b>16/14/9</b>	19/16/12	---

## FLUID DEGRADATION

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



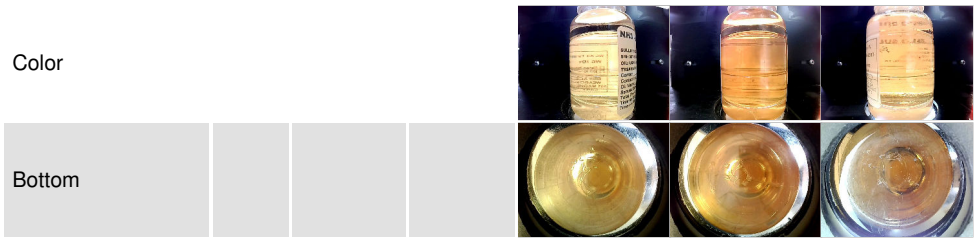
# OIL ANALYSIS REPORT



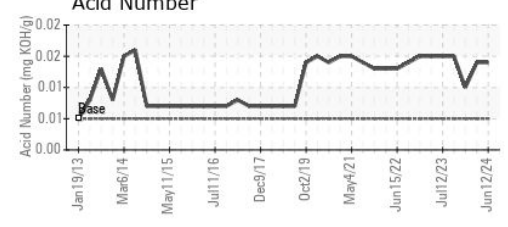
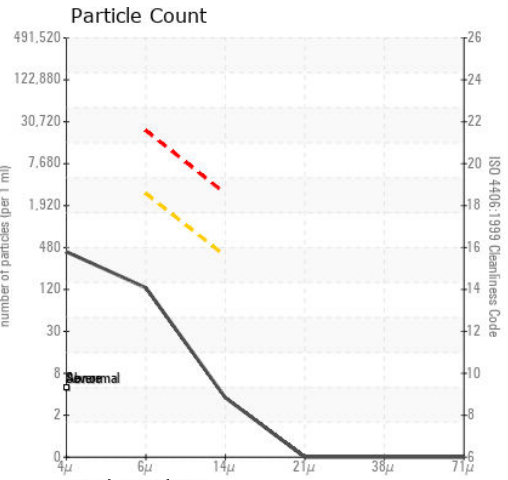
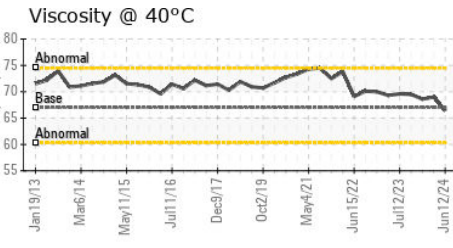
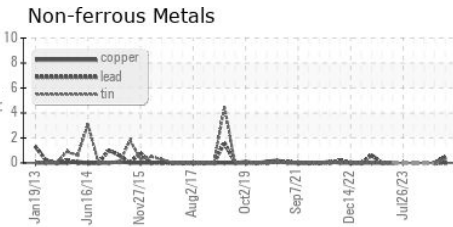
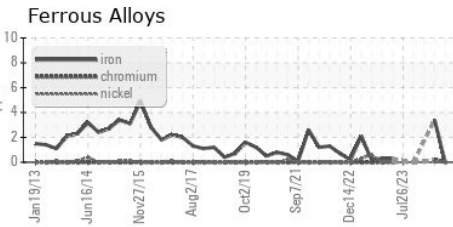
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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 67	66.4	69.0	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0013204      **Received** : 18 Jun 2024  
**Lab Number** : 06214074      **Tested** : 20 Jun 2024  
**Unique Number** : 11086938      **Diagnosed** : 21 Jun 2024 - Jonathan Hester  
**Test Package** : IND 2

**TYSON -AMARILLO-USP**  
 AMARILLO, TX  
 US  
 Contact: RANDY INGRAM

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)

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 F: (806)352-6946