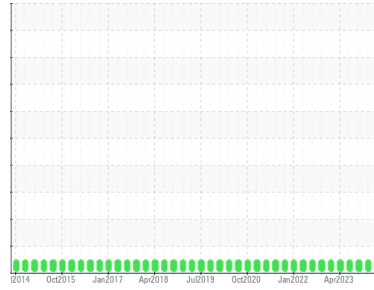




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**TYSWILFS HS-25 (S/N 50017CFMFTHAB3)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**USPI ALT-68 SC (165 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>USP0011463</b>	USP248443	USP0003596
Sample Date	Client Info	<b>14 May 2024</b>	20 Feb 2024	20 Nov 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>4</b>	4	2
Chromium ppm ASTM D5185m	>2	<b>&lt;1</b>	0	<1
Nickel ppm ASTM D5185m		<b>&lt;1</b>	0	<1
Titanium ppm ASTM D5185m		<b>&lt;1</b>	0	<1
Silver ppm ASTM D5185m	>2	<b>&lt;1</b>	0	0
Aluminum ppm ASTM D5185m	>3	<b>0</b>	0	0
Lead ppm ASTM D5185m	>2	<b>&lt;1</b>	0	0
Copper ppm ASTM D5185m	>8	<b>&lt;1</b>	0	<1
Tin ppm ASTM D5185m	>4	<b>&lt;1</b>	0	0
Vanadium ppm ASTM D5185m		<b>&lt;1</b>	<1	0
Cadmium ppm ASTM D5185m		<b>&lt;1</b>	0	<1

## 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>&lt;1</b>	0	<1
Manganese ppm ASTM D5185m		<b>0</b>	0	0
Magnesium ppm ASTM D5185m		<b>0</b>	<1	<1
Calcium ppm ASTM D5185m		<b>&lt;1</b>	0	0
Phosphorus ppm ASTM D5185m		<b>0</b>	0	1
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>	0	<1
Sodium ppm ASTM D5185m		<b>0</b>	0	0
Potassium ppm ASTM D5185m	>20	<b>1</b>	0	<1
Water % ASTM D6304	>0.01	<b>0.003</b>	0.001	0.004
ppm Water ppm ASTM D6304	>100	<b>32</b>	12	41

## FLUID CLEANLINESS

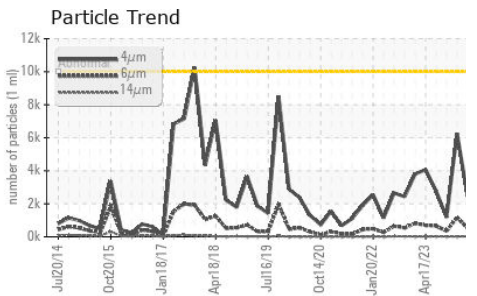
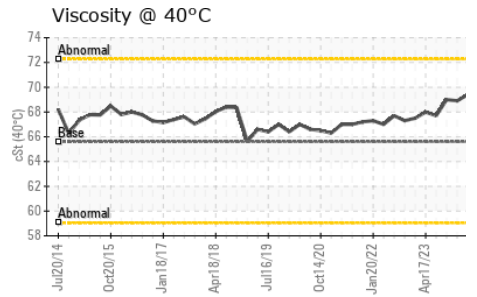
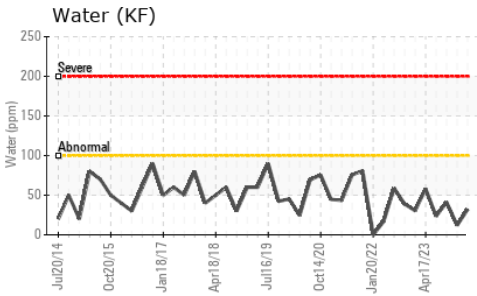
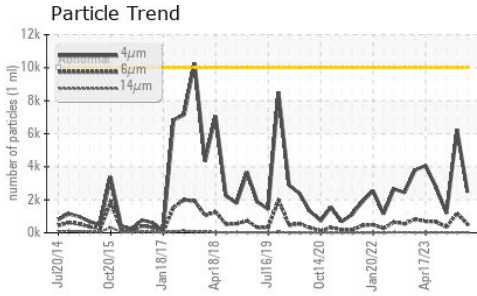
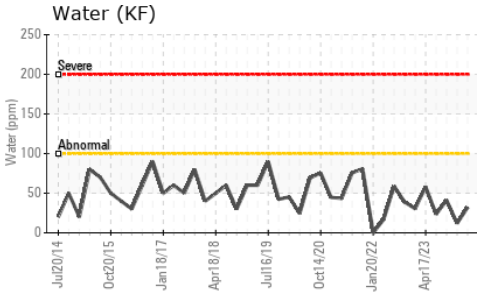
method	limit/base	current	history1	history2
Particles >4µm ASTM D7647	>10000	<b>2452</b>	6270	1180
Particles >6µm ASTM D7647	>2500	<b>522</b>	1178	351
Particles >14µm ASTM D7647	>320	<b>29</b>	25	19
Particles >21µm ASTM D7647	>80	<b>8</b>	4	5
Particles >38µm ASTM D7647	>20	<b>0</b>	0	1
Particles >71µm ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness ISO 4406 (c)	>20/18/15	<b>18/16/12</b>	20/17/12	17/16/11

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g ASTM D974	0.005	<b>0.012</b>	0.014	0.011



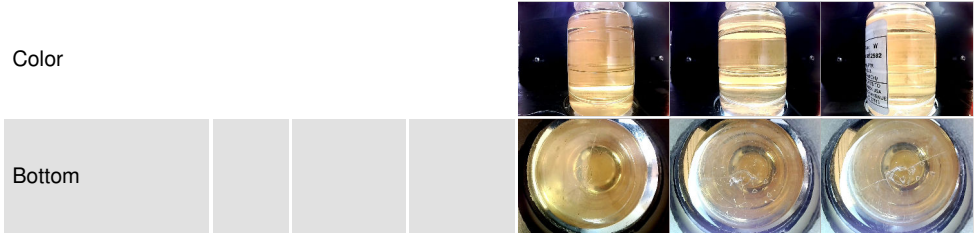
# OIL ANALYSIS REPORT



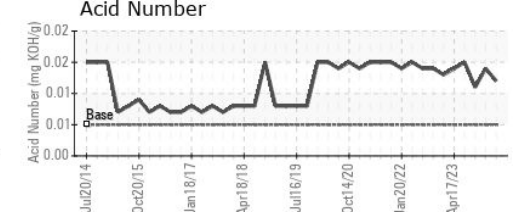
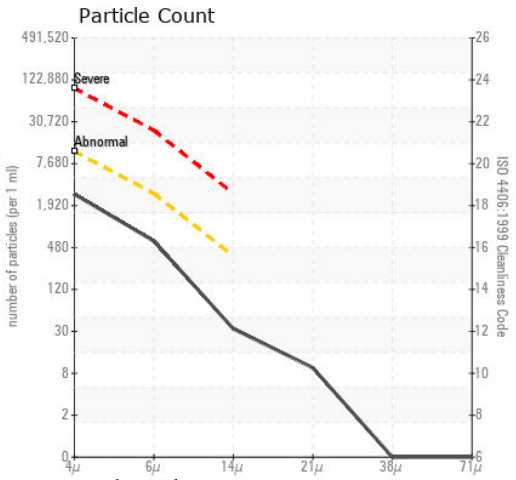
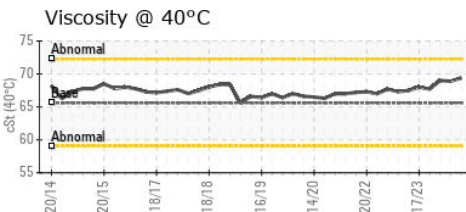
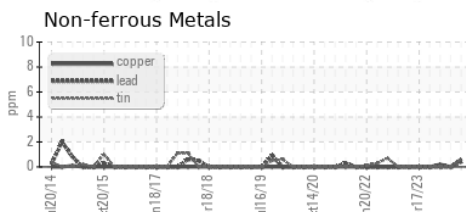
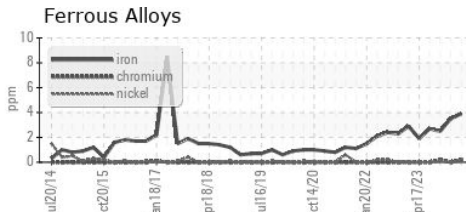
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	69.4	68.9

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



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : USP0011463  
 Lab Number : 06180222  
 Unique Number : 11031548  
 Test Package : IND 2

Received : 15 May 2024  
 Tested : 18 May 2024  
 Diagnosed : 18 May 2024 - Jonathan Hester

TYSON FOOD SERVICE PLT - WILKESBORO-USP  
 706 FACTORY ST  
 WILKESBORO, NC  
 US 28697  
 Contact:

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)

T:  
F: