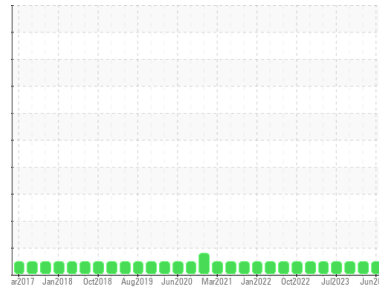




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Machine Id  
**19 (S/N 20930)**  
 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 component. The amount and size of particulates present in the system is 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>USP0012654</b>	USP0006913	USP0003144
Sample Date	Client Info	<b>02 Jun 2024</b>	15 Feb 2024	22 Oct 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>&lt;1</b>	0	0
Chromium	ppm ASTM D5185m >2	<b>&lt;1</b>	0	0
Nickel	ppm ASTM D5185m	<b>&lt;1</b>	<1	<1
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm ASTM D5185m >3	<b>0</b>	<1	<1
Lead	ppm ASTM D5185m >2	<b>&lt;1</b>	<1	0
Copper	ppm ASTM D5185m >8	<b>&lt;1</b>	<1	0
Tin	ppm ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Vanadium	ppm ASTM D5185m	<b>&lt;1</b>	0	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>	<1	0
Molybdenum	ppm ASTM D5185m	<b>&lt;1</b>	0	0
Manganese	ppm ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm ASTM D5185m	<b>&lt;1</b>	<1	0
Calcium	ppm ASTM D5185m	<b>0</b>	0	0
Phosphorus	ppm ASTM D5185m	<b>0</b>	0	0
Zinc	ppm ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm ASTM D5185m 50	<b>0</b>	34	25

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>1</b>	<1	<1
Sodium	ppm ASTM D5185m	<b>2</b>	1	<1
Potassium	ppm ASTM D5185m >20	<b>2</b>	1	2
Water	% ASTM D6304 >0.01	<b>0.003</b>	0.003	0.004
ppm Water	ppm ASTM D6304 >100	<b>34</b>	27	43.0

## FLUID CLEANLINESS

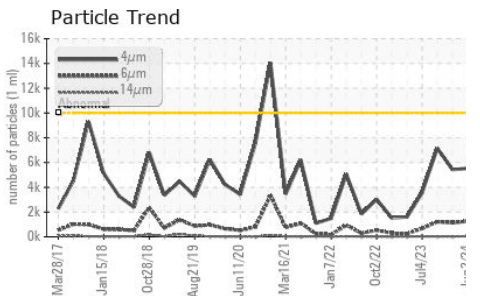
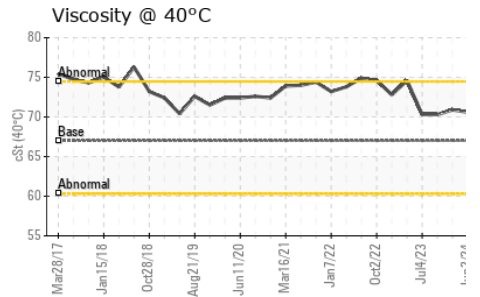
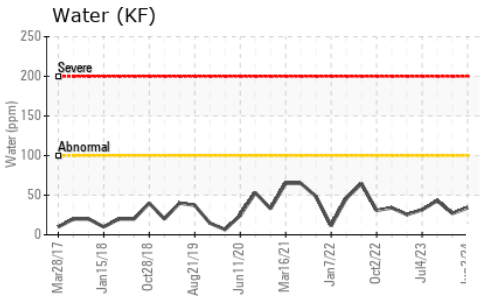
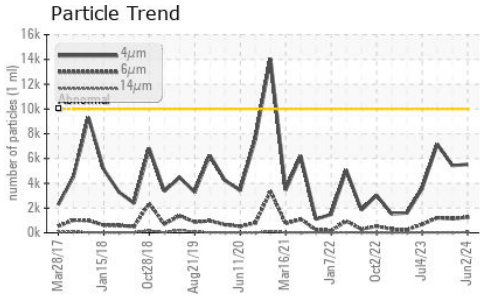
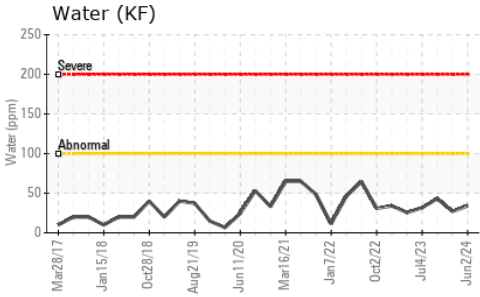
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>5530</b>	5424	7154
Particles >6µm	ASTM D7647 >2500	<b>1260</b>	1138	1218
Particles >14µm	ASTM D7647 >320	<b>51</b>	31	33
Particles >21µm	ASTM D7647 >80	<b>8</b>	4	7
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>20/17/13</b>	20/17/12	20/17/12

## FLUID DEGRADATION

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



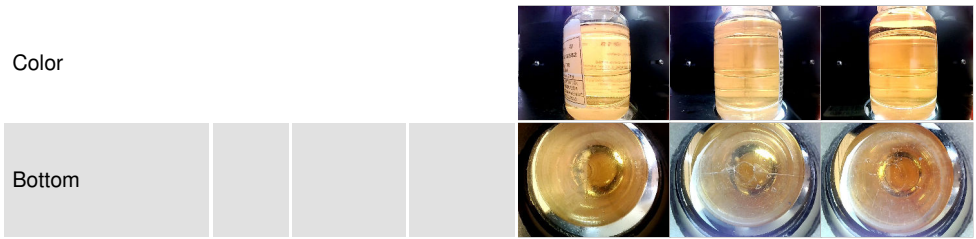
# OIL ANALYSIS REPORT



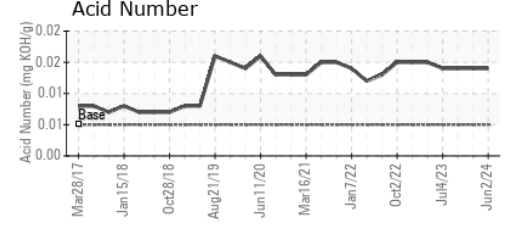
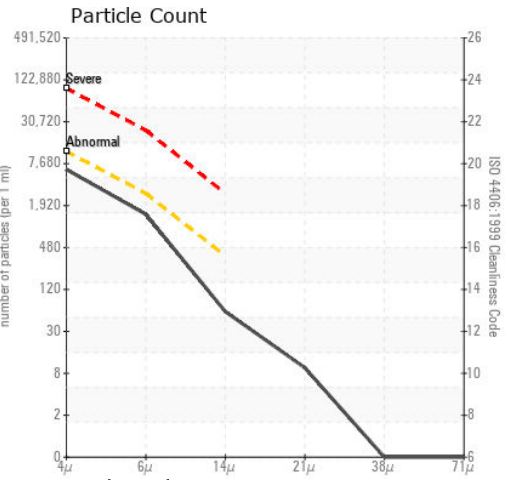
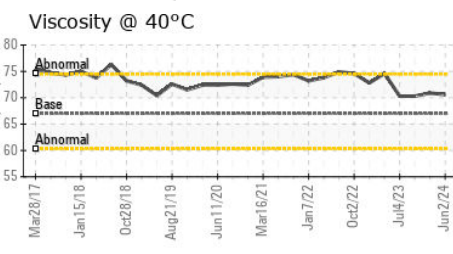
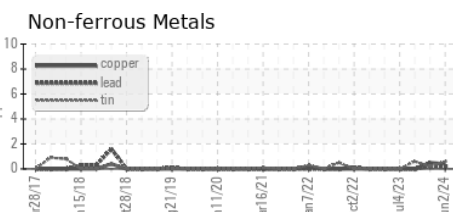
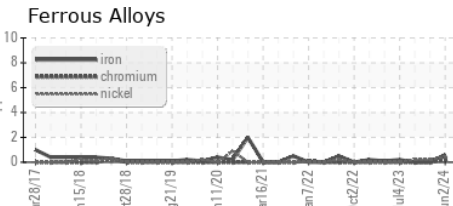
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 67	70.6	70.9	70.3

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0012654  
**Lab Number** : 06198251  
**Unique Number** : 11060374  
**Test Package** : IND 2  
**Received** : 03 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 06 Jun 2024 - Doug Bogart

**TYSON HILLSHIRE - NEW LONDON**  
 N3620 COUNTY RD D  
 NEW LONDON, WI  
 US 54961  
 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)