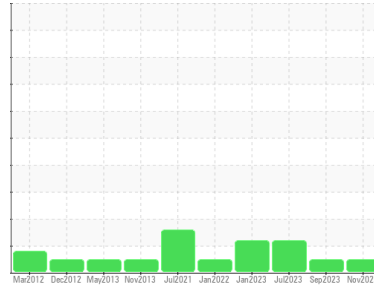




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area  
**WHS**  
 Machine Id  
**VILTER NH3 - WH5-VILTER 1 OK21030 (S/N 61094)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**USPI 1009-68 SC (7 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>USP0003627</b>	USP242822	USP242823
Sample Date	Client Info	<b>08 Nov 2023</b>	27 Sep 2023	04 Jul 2023
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	ATTENTION

## WEAR METALS

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

## ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	0	0
Barium	ppm	ASTM D5185m	0	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	0	<1
Magnesium	ppm	ASTM D5185m	0	0
Calcium	ppm	ASTM D5185m	0	0
Phosphorus	ppm	ASTM D5185m	0	0
Zinc	ppm	ASTM D5185m	0	0
Sulfur	ppm	ASTM D5185m 50	0	19

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	<1
Sodium	ppm	ASTM D5185m	0	<1
Potassium	ppm	ASTM D5185m >20	0	0
Water	%	ASTM D6304 >0.01	<b>0.002</b>	0.001
ppm Water	ppm	ASTM D6304 >100	<b>20.7</b>	7.0

## FLUID CLEANLINESS

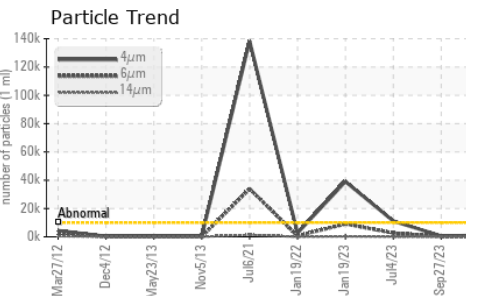
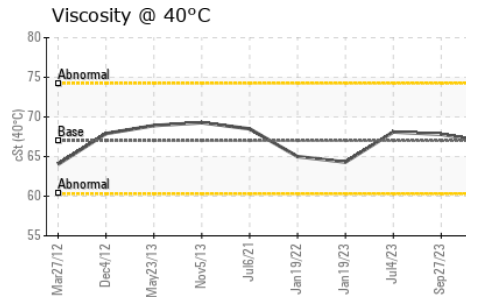
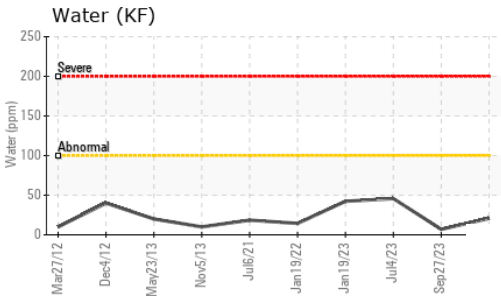
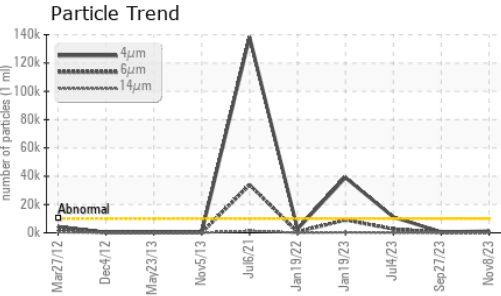
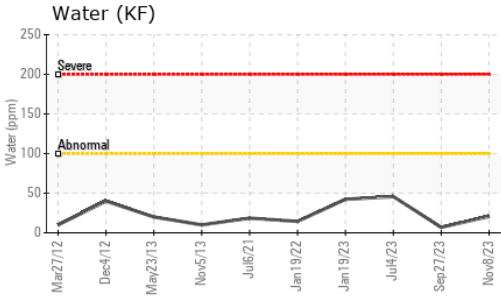
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	<b>1157</b>	567	▲ 11101
Particles >6µm	ASTM D7647 >2500	<b>275</b>	170	▲ 2692
Particles >14µm	ASTM D7647 >320	<b>19</b>	12	53
Particles >21µm	ASTM D7647 >80	<b>4</b>	3	6
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	<b>17/15/11</b>	16/15/11	▲ 21/19/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.005	<b>0.014</b>	0.013



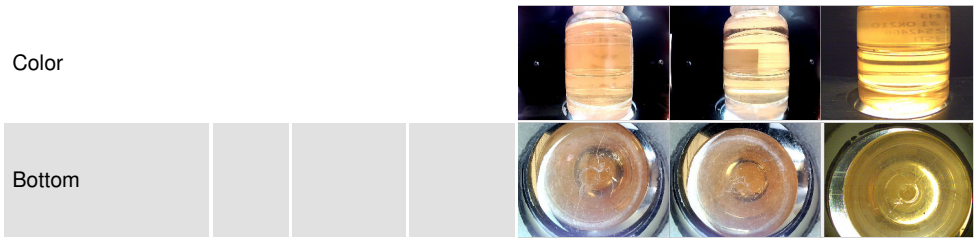
# OIL ANALYSIS REPORT



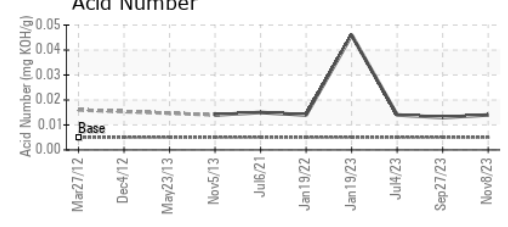
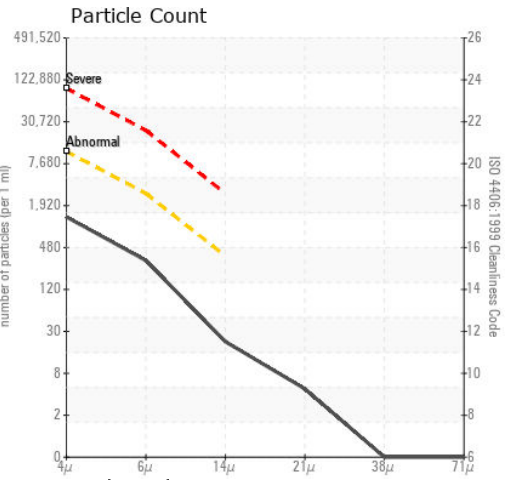
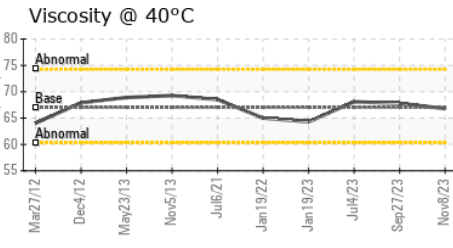
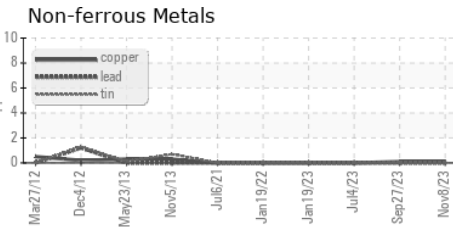
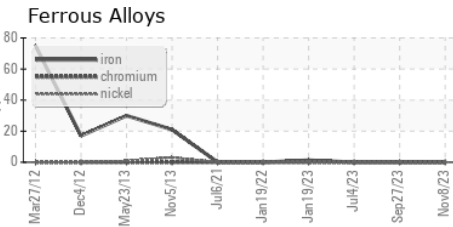
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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 67	66.8	67.8	68.1

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0003627  
**Lab Number** : 06012447  
**Unique Number** : 10751591  
**Test Package** : IND 2

**SCHWANS BAKERY**  
 5 EAST WALNUT  
 STILWELL, OK  
 US 74960  
 Contact: DENNIS LONGSHORE

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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