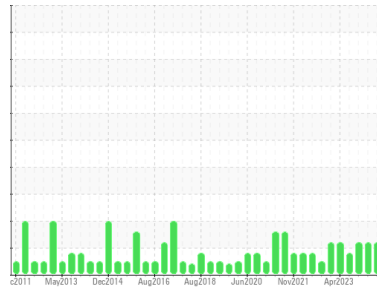




# OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id  
**C-1 (S/N XA0224)**  
 Component  
**Compressor**  
 Fluid  
**USPI ALT-68 SC (220 LTR)**

## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

### 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>USP0014977</b>	USP0007350	USP0005652
Sample Date	Client Info	<b>17 Jul 2024</b>	07 Mar 2024	24 Jan 2024
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>ATTENTION</b>	ABNORMAL	ABNORMAL

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	0	1
Chromium	ppm	ASTM D5185m >10	0	0
Nickel	ppm	ASTM D5185m	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >25	1	0
Lead	ppm	ASTM D5185m >25	0	0
Copper	ppm	ASTM D5185m >50	0	0
Tin	ppm	ASTM D5185m >15	0	0
Vanadium	ppm	ASTM D5185m	0	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	0
Magnesium	ppm	ASTM D5185m	<1	0
Calcium	ppm	ASTM D5185m	<1	0
Phosphorus	ppm	ASTM D5185m	<1	0
Zinc	ppm	ASTM D5185m	0	0
Sulfur	ppm	ASTM D5185m 50	21	0

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<1	1
Sodium	ppm	ASTM D5185m	<1	<1
Potassium	ppm	ASTM D5185m >20	0	<1
Water	%	ASTM D6304 >0.1	<b>0.003</b>	0.001
ppm Water	ppm	ASTM D6304 >1000	<b>33</b>	11

## FLUID CLEANLINESS

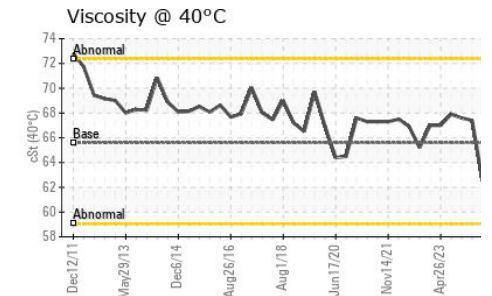
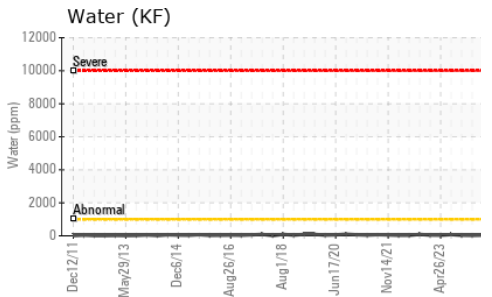
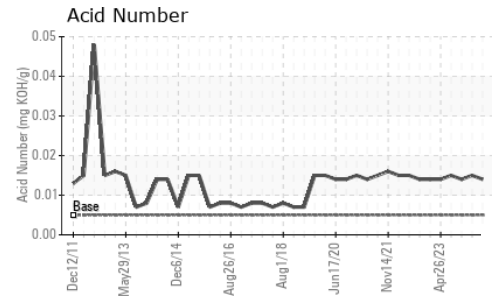
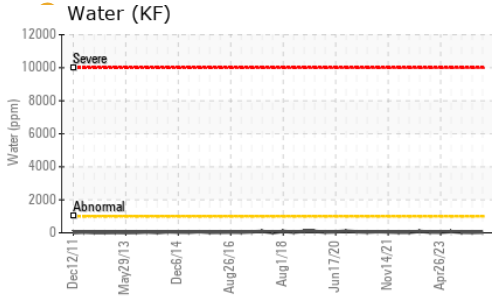
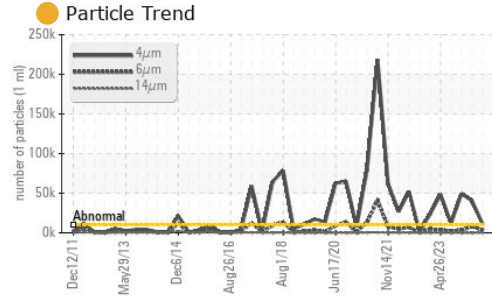
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	● <b>10950</b>	▲ 40272	▲ 49289
Particles >6µm	ASTM D7647 >2500	● <b>3422</b>	▲ 7872	● 3299
Particles >14µm	ASTM D7647 >320	<b>136</b>	116	44
Particles >21µm	ASTM D7647 >80	<b>17</b>	15	6
Particles >38µm	ASTM D7647 >20	<b>0</b>	0	0
Particles >71µm	ASTM D7647 >4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	● <b>21/19/14</b>	▲ 23/20/14	▲ 23/19/13

## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.005	<b>0.014</b>	0.015



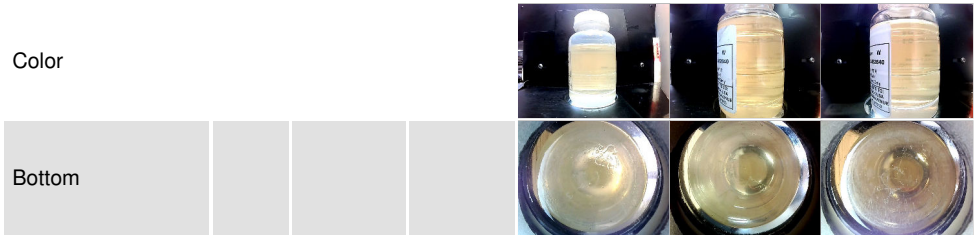
# OIL ANALYSIS REPORT



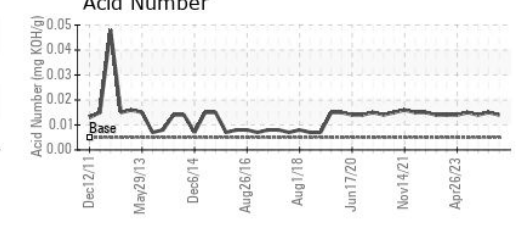
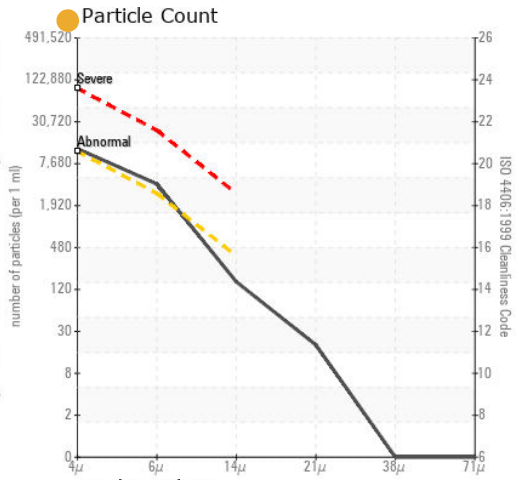
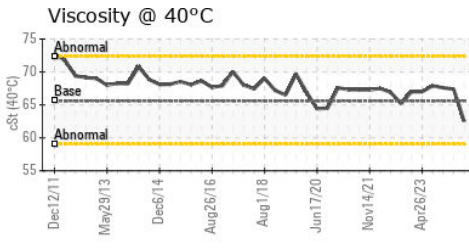
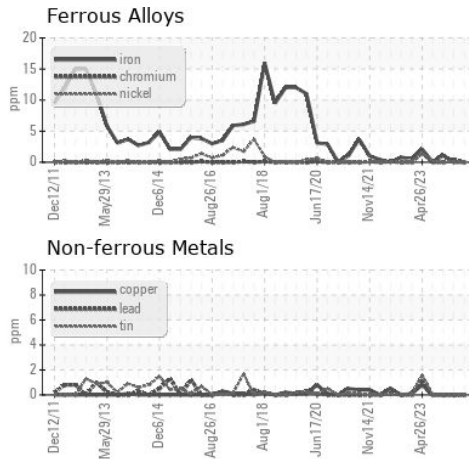
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	65.6	62.5	67.4

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP0014977  
**Lab Number** : 06240398  
**Unique Number** : 11129232  
**Test Package** : IND 2  
**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Doug Bogart

**TRIUMPH FOODS**

US  
 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)