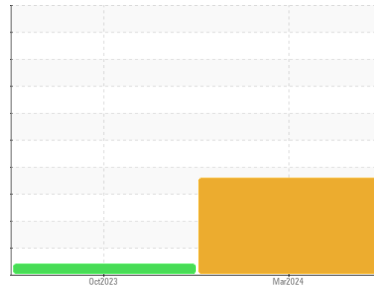




# PROBLEM SUMMARY

Sample Rating Trend



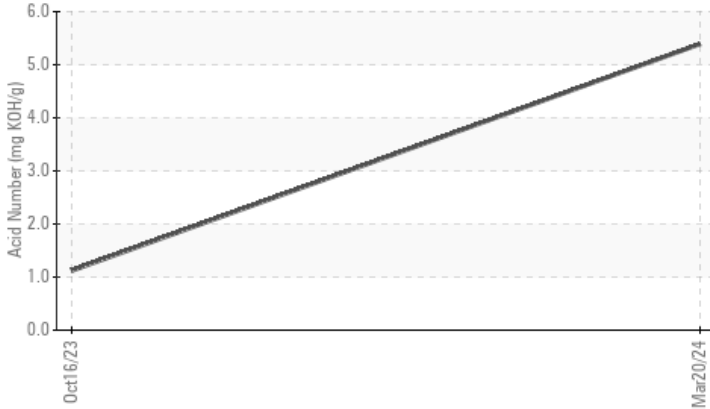
DEGRADATION



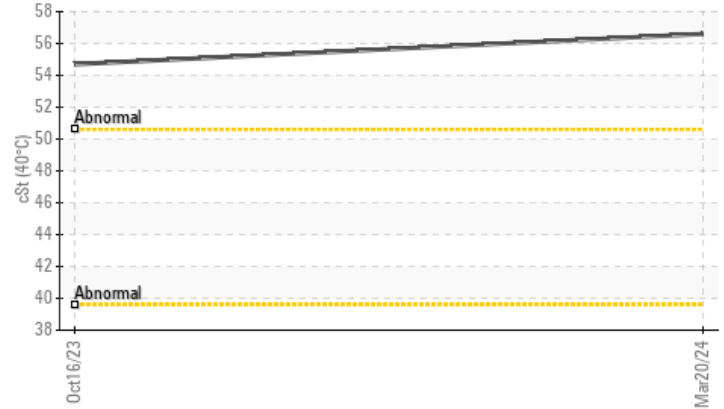
Machine Id  
**AC-2**  
 Component  
**Air Compressor**  
 Fluid  
**SUMMIT ULTIMA 46 (--- GAL)**

## COMPONENT CONDITION SUMMARY

▲ Acid Number



▲ Viscosity @ 40°C



## RECOMMENDATION

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	ABNORMAL	---
Acid Number (AN)	mg KOH/g ASTM D8045	▲ 5.391	1.12	---
Visc @ 40°C	cSt ASTM D445	▲ 56.6	54.7	---

Customer Id: LINFRE  
 Sample No.: USP0008221  
 Lab Number: 06134993  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Flush System	---	---	?	Recommend drain oil if not already done and flush with cleaner before refilling with oil.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

### VIS DEBRIS



#### 16 Oct 2023 Diag: Doug Bogart

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Viscosity confirmed. The AN level is acceptable for this fluid.

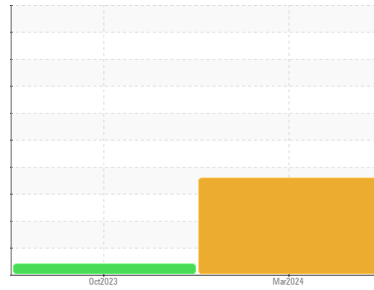
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



DEGRADATION



Machine Id  
**AC-2**  
 Component  
**Air Compressor**  
 Fluid  
**SUMMIT ULTIMA 46 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

Recommend drain oil if not already done and flush with cleaner before refilling with oil. We recommend an early resample to monitor this condition.

### 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 above the recommended limit. The oil viscosity is higher than normal. Confirmed.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP0008221</b>	USP242231	---
Sample Date	Client Info		<b>20 Mar 2024</b>	16 Oct 2023	---
Machine Age	hrs	Client Info	<b>28078</b>	26462	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>SEVERE</b>	ABNORMAL	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>0</b>	10	---
Chromium	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m >4	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>0</b>	0	---
Silver	ppm	ASTM D5185m	<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	0	---
Copper	ppm	ASTM D5185m >40	<b>&lt;1</b>	1	---
Tin	ppm	ASTM D5185m >5	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	---

## 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>	0	---
Magnesium	ppm	ASTM D5185m	<b>0</b>	1	---
Calcium	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Phosphorus	ppm	ASTM D5185m	<b>10</b>	1	---
Zinc	ppm	ASTM D5185m	<b>1</b>	2	---
Sulfur	ppm	ASTM D5185m	<b>58</b>	19	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >25	<b>6</b>	8	---
Sodium	ppm	ASTM D5185m	<b>4</b>	10	---
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	3	---
Water	%	ASTM D6304 >0.6	<b>0.003</b>	0.260	---
ppm Water	ppm	ASTM D6304 >6000	<b>37</b>	2605.7	---

## FLUID CLEANLINESS

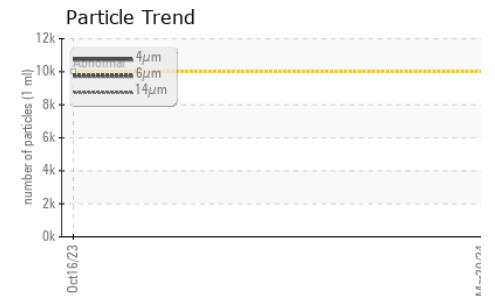
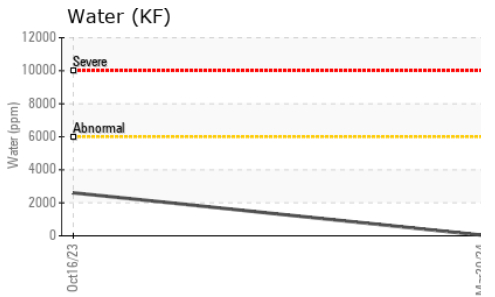
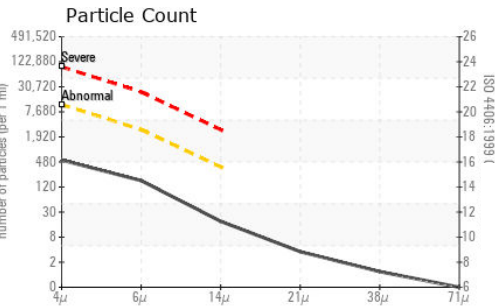
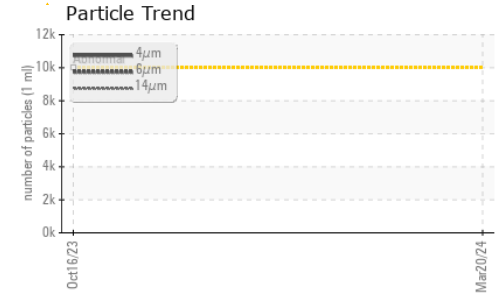
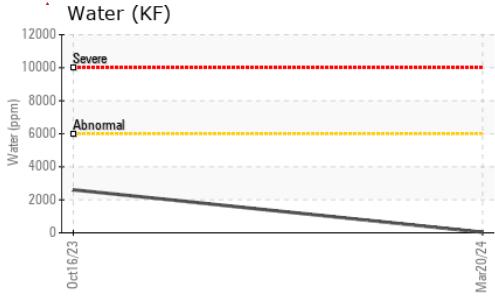
	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>10000	<b>469</b>	---	---
Particles >6µm	ASTM D7647	>2500	<b>151</b>	---	---
Particles >14µm	ASTM D7647	>320	<b>16</b>	---	---
Particles >21µm	ASTM D7647	>80	<b>3</b>	---	---
Particles >38µm	ASTM D7647	>20	<b>1</b>	---	---
Particles >71µm	ASTM D7647	>4	<b>0</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>20/18/15	<b>16/14/11</b>	---	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>▲ 5.391</b>	1.12	---



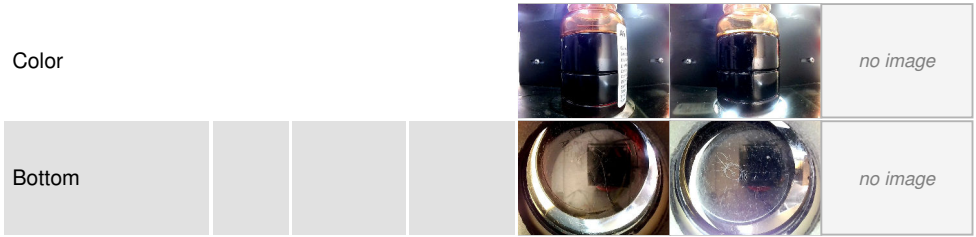
# OIL ANALYSIS REPORT



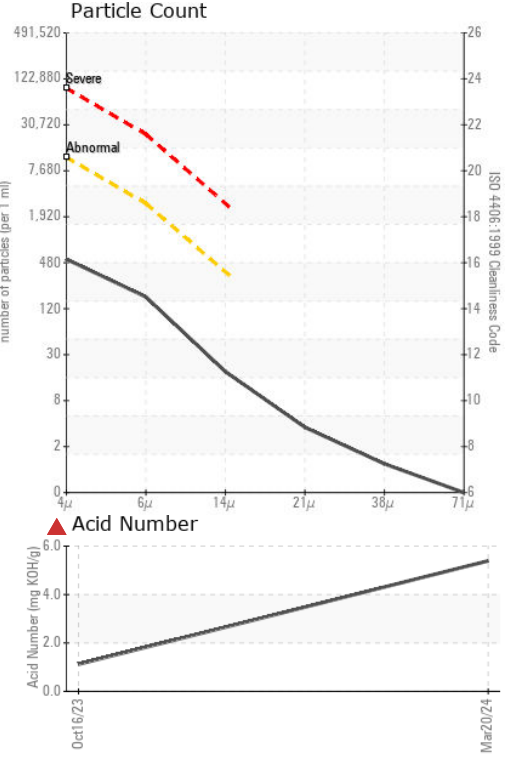
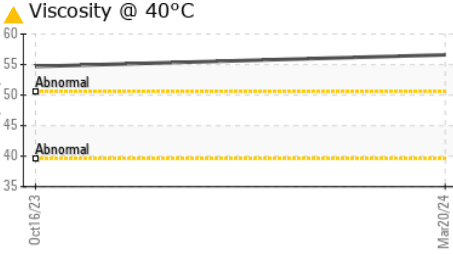
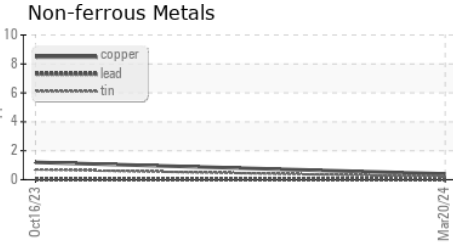
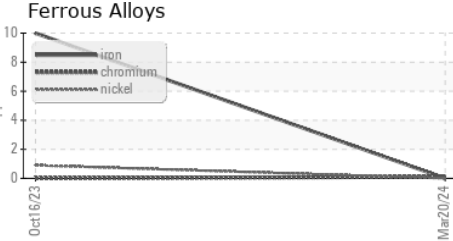
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	▲ MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.6	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	▲ 56.6	54.7	---

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



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : USP008221      **Received** : 01 Apr 2024  
**Lab Number** : 06134993      **Tested** : 04 Apr 2024  
**Unique Number** : 10954458      **Diagnosed** : 04 Apr 2024 - Doug Bogart  
**Test Package** : IND 2

**LINCOLN PREMIUM POULTRY**  
 1325 E CLOVERLY RD  
 FREMONT, NE  
 US 68025  
 Contact: MATTHEW ARNDT

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)