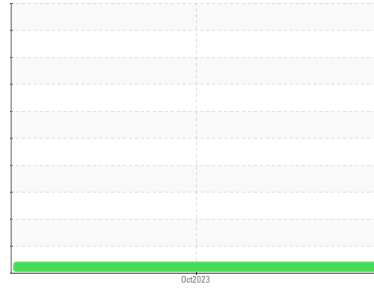




# PROBLEM SUMMARY

Sample Rating Trend



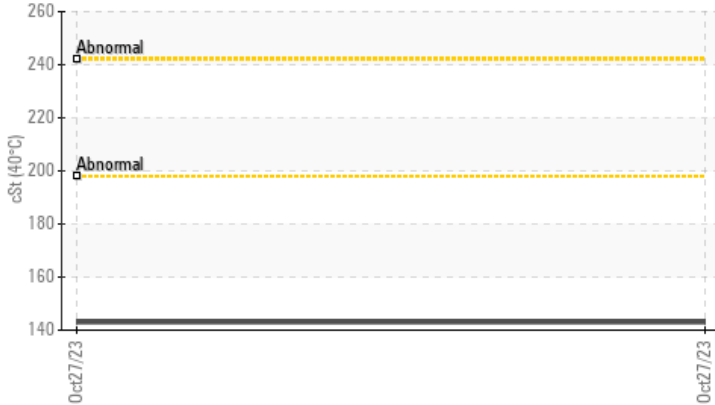
## VISCOSITY



Area  
**[05W43377]**  
 Machine Id  
**015-0072**  
 Component  
**Hoisting Gearbox**  
 Fluid  
**SCHAEFFERS ISO 220 (--- GAL)**

### COMPONENT CONDITION SUMMARY

#### ▲ Viscosity @ 40°C



### RECOMMENDATION

Resample at the next service interval to monitor.

### PROBLEMATIC TEST RESULTS

Sample Status			ATTENTION	---	---
Visc @ 40°C	cSt	ASTM D445	▲ 143	---	---

Customer Id: AECCHATN  
 Sample No.: WC0868270  
 Lab Number: 06000077  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Sean Felton +1 919-379-4092  
[sfelton@wearcheckusa.com](mailto:sfelton@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

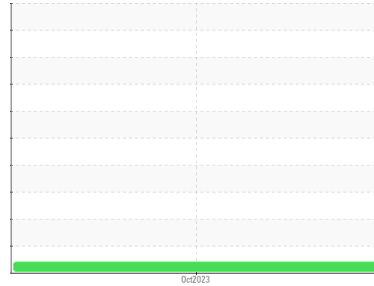


# OIL ANALYSIS REPORT

Sample Rating Trend

VISCOSITY

Area  
**[05W43377]**  
 Machine Id  
**015-0072**  
 Component  
**Hoisting Gearbox**  
 Fluid  
**SCHAEFFERS ISO 220 (--- 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.

### Fluid Condition

The oil viscosity is lower than normal. Confirm oil type.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC0868270</b>	---	---
Sample Date	Client Info	<b>27 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Not Changed</b>	---	---
Sample Status		<b>ATTENTION</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	<b>9</b>	---	---
Chromium ppm	ASTM D5185m >10	<b>0</b>	---	---
Nickel ppm	ASTM D5185m >10	<b>0</b>	---	---
Titanium ppm	ASTM D5185m	<b>0</b>	---	---
Silver ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m	<b>0</b>	---	---
Lead ppm	ASTM D5185m	<b>&lt;1</b>	---	---
Copper ppm	ASTM D5185m	<b>0</b>	---	---
Tin ppm	ASTM D5185m	<b>0</b>	---	---
Vanadium ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>12</b>	---	---
Barium ppm	ASTM D5185m	<b>36</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium ppm	ASTM D5185m	<b>0</b>	---	---
Calcium ppm	ASTM D5185m	<b>13</b>	---	---
Phosphorus ppm	ASTM D5185m	<b>439</b>	---	---
Zinc ppm	ASTM D5185m	<b>6</b>	---	---
Sulfur ppm	ASTM D5185m	<b>5680</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m	<b>3</b>	---	---
Sodium ppm	ASTM D5185m	<b>1</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>2</b>	---	---

## VISUAL

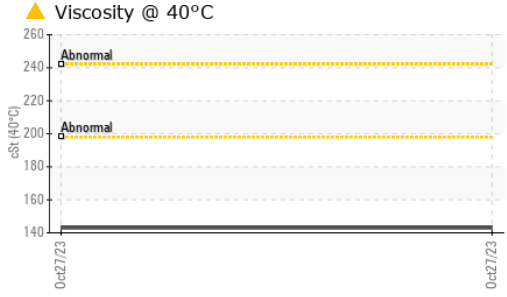
method	limit/base	current	history1	history2
White Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Yellow Metal scalar	*Visual NONE	<b>NONE</b>	---	---
Precipitate scalar	*Visual NONE	<b>NONE</b>	---	---
Silt scalar	*Visual NONE	<b>MODER</b>	---	---
Debris scalar	*Visual NONE	<b>NONE</b>	---	---
Sand/Dirt scalar	*Visual NONE	<b>NONE</b>	---	---
Appearance scalar	*Visual NORML	<b>NORML</b>	---	---
Odor scalar	*Visual NORML	<b>NORML</b>	---	---
Emulsified Water scalar	*Visual >0.2	<b>NEG</b>	---	---
Free Water scalar	*Visual	<b>NEG</b>	---	---

## FLUID PROPERTIES

method	limit/base	current	history1	history2
Visc @ 40°C cSt	ASTM D445	<b>▲ 143</b>	---	---

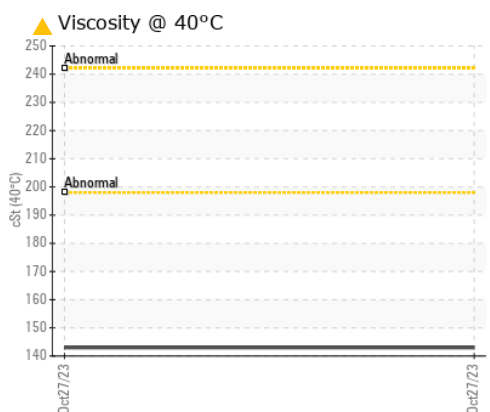
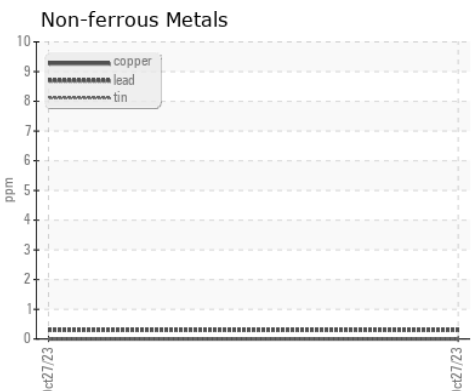
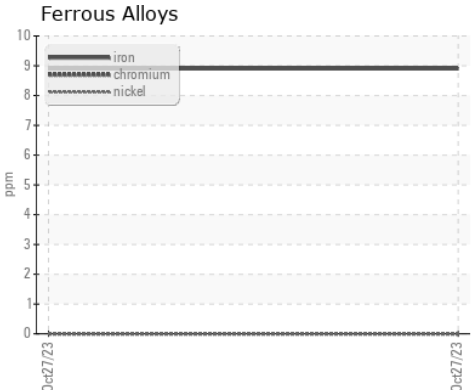


# OIL ANALYSIS REPORT



SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0868270      **Received** : 06 Nov 2023  
**Lab Number** : 06000077      **Diagnosed** : 08 Nov 2023  
**Unique Number** : 10728437      **Diagnostician** : Sean Felton  
**Test Package** : CONST

**SHIMMICK CONSTRUCTION**  
 5535 TRAILHEAD DRIVE  
 CHATTANOOGA, TN  
 US 37415  
 Contact: DANIEL LISELLA  
 daniel.lisella@shimmick.com  
 T:  
 F:

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)