



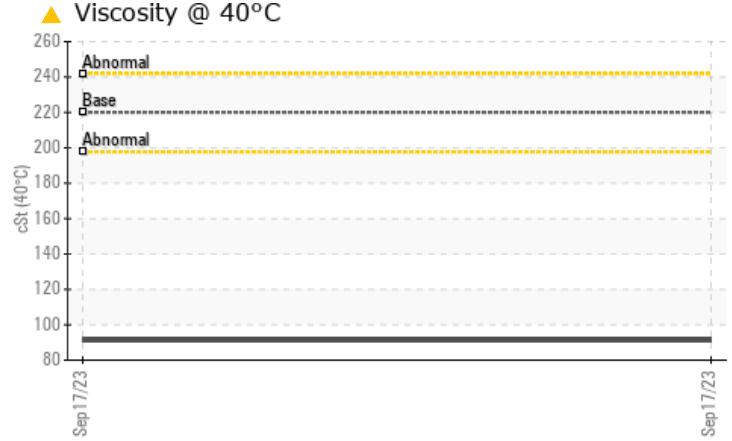
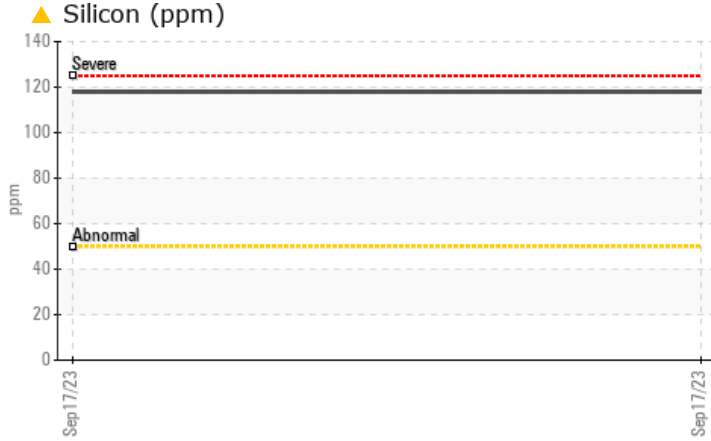
# PROBLEM SUMMARY

Sample Rating Trend



Machine Id  
**083-0005 - SCREEN DECK**  
 Component  
**Left Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time.  
 Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status	ABNORMAL		---	---
Silicon	ppm	ASTM D5185m >50	▲ 118	---
Visc @ 40°C	cSt	ASTM D445 220	▲ 91.2	---

Customer Id: AECCHATN  
 Sample No.: WC0815087  
 Lab Number: 05960842  
 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

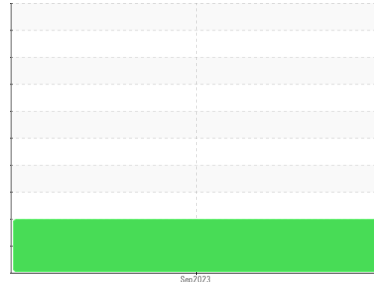
*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



**DIRT**



Machine Id  
**083-0005 - SCREEN DECK**  
 Component  
**Left Gearbox**  
 Fluid  
**GEAR OIL ISO 220 (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material.

### 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>WC0815087</b>	---	---
Sample Date	Client Info	<b>17 Sep 2023</b>	---	---
Machine Age	hrs	Client Info	<b>0</b>	---
Oil Age	hrs	Client Info	<b>0</b>	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >200	<b>181</b>	---
Chromium	ppm	ASTM D5185m >10	<b>1</b>	---
Nickel	ppm	ASTM D5185m >10	<b>1</b>	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	---
Silver	ppm	ASTM D5185m	<b>0</b>	---
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	---
Lead	ppm	ASTM D5185m >50	<b>0</b>	---
Copper	ppm	ASTM D5185m >200	<b>62</b>	---
Tin	ppm	ASTM D5185m >10	<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 50	<b>50</b>	---
Barium	ppm	ASTM D5185m 15	<b>5</b>	---
Molybdenum	ppm	ASTM D5185m 15	<b>430</b>	---
Manganese	ppm	ASTM D5185m	<b>3</b>	---
Magnesium	ppm	ASTM D5185m 50	<b>3</b>	---
Calcium	ppm	ASTM D5185m 50	<b>23</b>	---
Phosphorus	ppm	ASTM D5185m 350	<b>1194</b>	---
Zinc	ppm	ASTM D5185m 100	<b>61</b>	---
Sulfur	ppm	ASTM D5185m 12500	<b>19660</b>	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>▲ 118</b>	---
Sodium	ppm	ASTM D5185m	<b>0</b>	---
Potassium	ppm	ASTM D5185m >20	<b>2</b>	---

## VISUAL

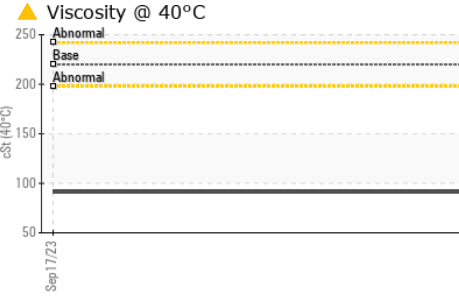
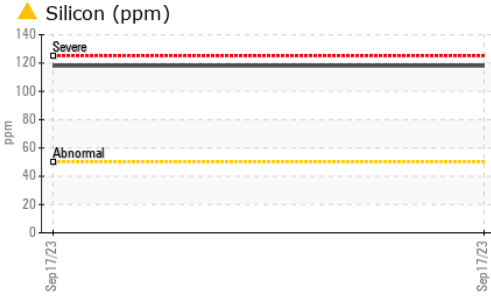
method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	---
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	---
Precipitate	scalar	*Visual NONE	<b>NONE</b>	---
Silt	scalar	*Visual NONE	<b>NONE</b>	---
Debris	scalar	*Visual NONE	<b>NONE</b>	---
Sand/Dirt	scalar	*Visual NONE	<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 220	<b>▲ 91.2</b>	---

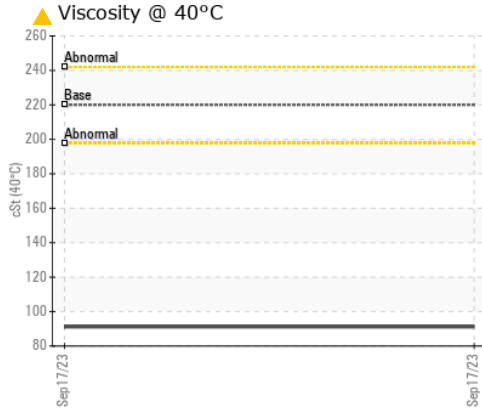
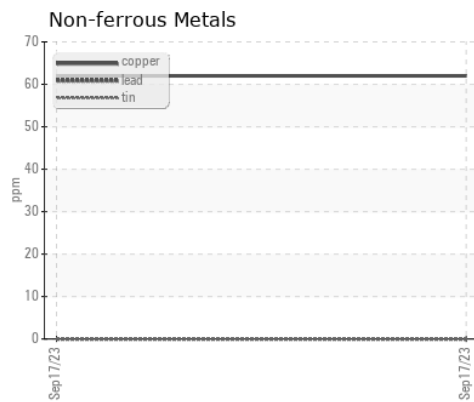
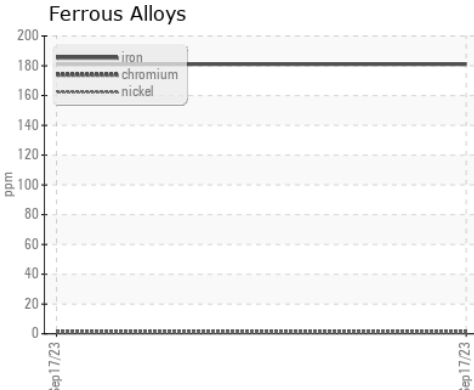


# OIL ANALYSIS REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0815087 **Received** : 25 Sep 2023  
**Lab Number** : 05960842 **Diagnosed** : 27 Sep 2023  
**Unique Number** : 10662055 **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)