



# PROBLEM SUMMARY

Sample Rating Trend

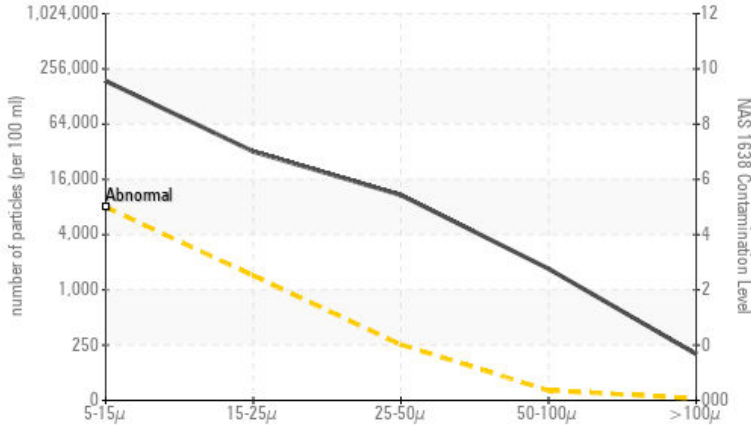
ISO



Area  
**37533 (TRACE PO 36880) [37533]**  
 Machine Id  
**EGWTS0001-09052023A**  
 Component  
**Hydraulic System**  
 Fluid  
**WC171088 ETHYLENE GLYCOL (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Particle Count



## RECOMMENDATION

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

## PROBLEMATIC TEST RESULTS

Sample Status

**ABNORMAL** ---

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**Customer Id:** RIDHAM  
**Sample No.:** WC05959313  
**Lab Number:** 05959313  
**Test Package:** IND 2



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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 Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

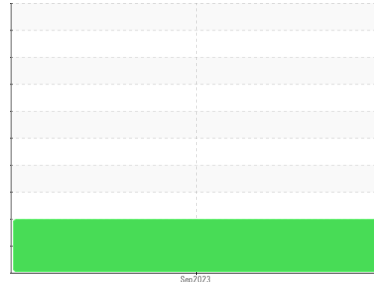
## HISTORICAL DIAGNOSIS



# COOLANT REPORT

Sample Rating Trend

ISO



Area  
**37533 (TRACE PO 36880) [37533]**  
 Machine Id  
**EGWTS0001-09052023A**  
 Component  
**Hydraulic System**  
 Fluid  
**WC171088 ETHYLENE GLYCOL (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

### Wear

All metal levels are normal indicating no corrosion in the cooling system.

### Contamination

There is a high amount of particulates present in the oil. NAS 1638 Class: 11, Discrete particle counts [100 ml] 5-15µm = 189100, 15-25µm = 32200, 25-50µm = 10800, 50-100µm = 1700, >100µm = 200. The system cleanliness is above the acceptable limit for the target SAE AS4059 (replaces NAS 1638) cleanliness code.

### Fluid Condition

The glycol level is acceptable. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>WC05959313</b>	---	---
Sample Date	Client Info	<b>18 Sep 2023</b>	---	---
Machine Age	mths Client Info	<b>0</b>	---	---
Oil Age	mths Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Reserve Alkalinity	Scale 0-20 *ASTM D1121	---	---	---
Percentage Glycol	% ASTM D3321	<b>59.7</b>	---	---

## CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m	<b>7</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>4106</b>	---	---
Boron	ppm ASTM D5185m	<b>9</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>3</b>	---	---

## CORROSION

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185m >20	<b>1</b>	---	---
Copper	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Lead	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Zinc	ppm ASTM D5185m	<b>&lt;1</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Chlorine	ppm ASTM D5185m	<b>27</b>	---	---

## CARRIER SALTS

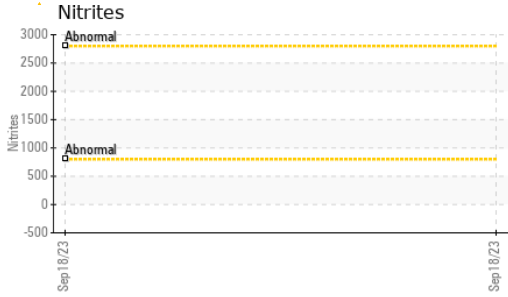
method	limit/base	current	history1	history2
Sodium	ppm ASTM D5185m	<b>295</b>	---	---
Potassium	ppm ASTM D5185m	<b>10000</b>	---	---

## SCALE POTENTIAL

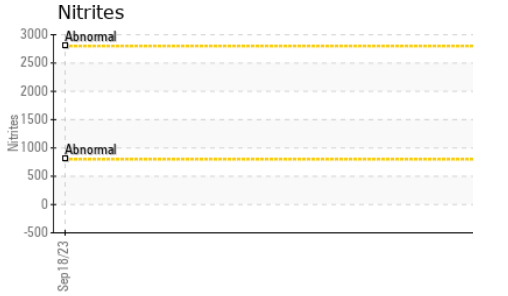
method	limit/base	current	history1	history2
Calcium	ppm ASTM D5185m	<b>2</b>	---	---
Magnesium	ppm ASTM D5185m	<b>9</b>	---	---



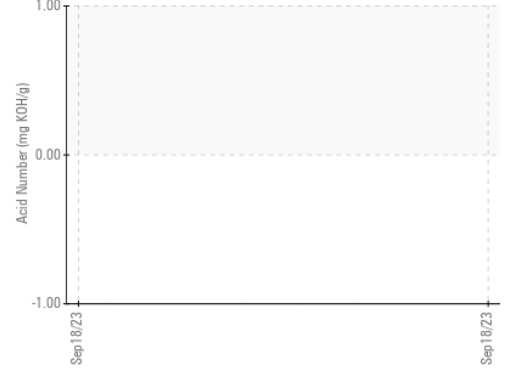
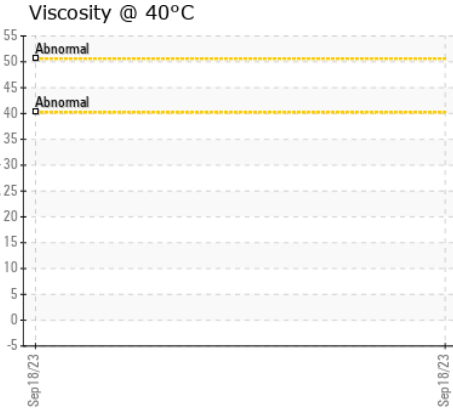
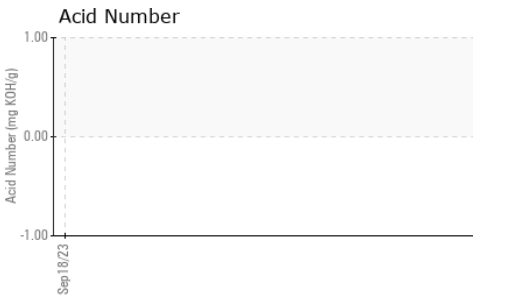
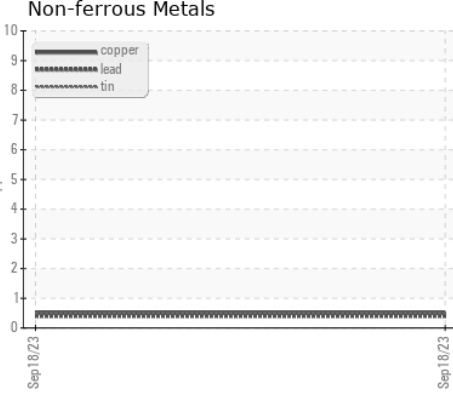
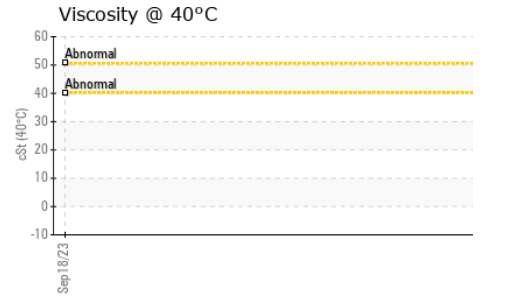
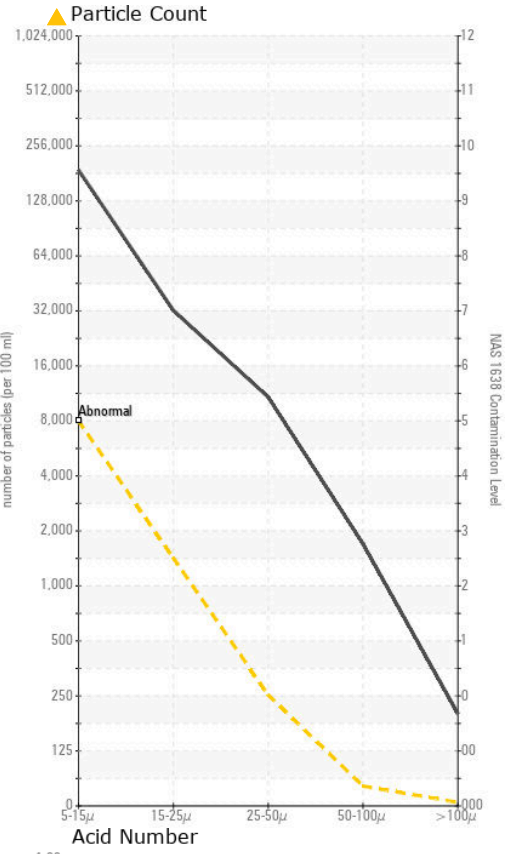
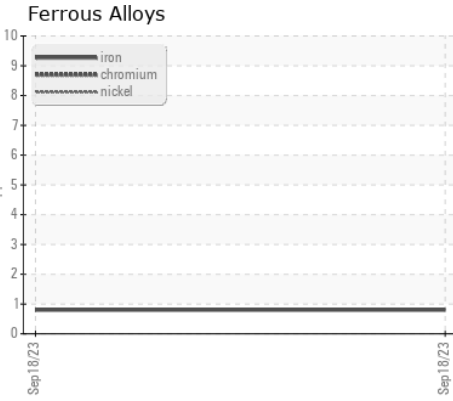
# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC05959313 **Received** : 22 Sep 2023  
**Lab Number** : 05959313 **Diagnosed** : 09 Oct 2023  
**Unique Number** : 10660526 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: Cool, KF, PrtCountNAS )

**RIDGE ENGINEERING**  
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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)