



# COOLANT REPORT

Sample Rating Trend



ISO



Area  
**38559 TRACE PO 38113 [38559]**  
 Machine Id  
**EGWTS0001-04082024C**  
 Component  
**Fluid**  
 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

NAS 1638 Class: 10, Discrete particle counts [100 ml] 5-15µm = 134600, 15-25µm = 22900, 25-50µm = 7700, 50-100µm = 1200, >100µm = 100. There is a high amount of particulates present in the fluid. The system cleanliness is above the acceptable limit for the target cleanliness code.

### Fluid Condition

The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC06143784</b>	---	---
Sample Date	Client Info		<b>08 Apr 2024</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>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method		<b>NEG</b>	---	---

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		<b>1.083</b>	---	---
pH	Scale 0-14 ASTM D1287		<b>8.00</b>	---	---
Nitrites	ppm AP-053:2009		<b>0</b>	---	---
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		<b>63.0</b>	---	---
Freezing Point	°F ASTM D3321		<b>-62</b>	---	---
Total Dissolved Solids			<b>490.0</b>	---	---
Carboxylate			<b>n/a</b>	---	---

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m		<b>2</b>	---	---
Phosphorus	ppm ASTM D5185m		<b>3253</b>	---	---
Boron	ppm ASTM D5185m		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185m		<b>4</b>	---	---

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185m		<b>0</b>	---	---
Lead	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Zinc	ppm ASTM D5185m		<b>&lt;1</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D5185m		<b>2</b>	---	---

## CARRIER SALTS

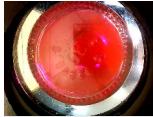

	method	limit/base	current	history1	history2
Sodium	ppm ASTM D5185m		<b>236</b>	---	---
Potassium	ppm ASTM D5185m		<b>6931</b>	---	---

## SCALE POTENTIAL

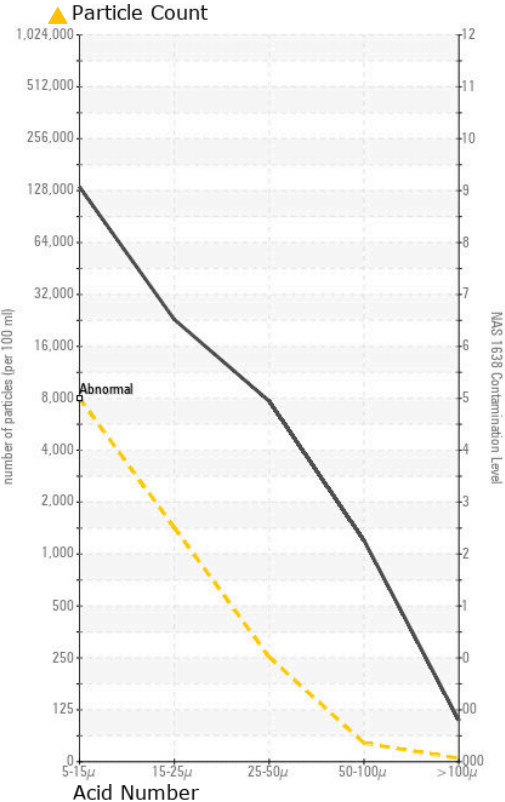
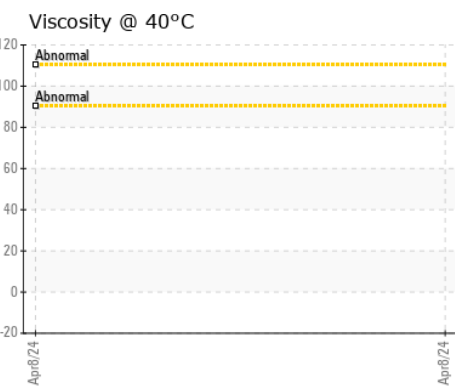
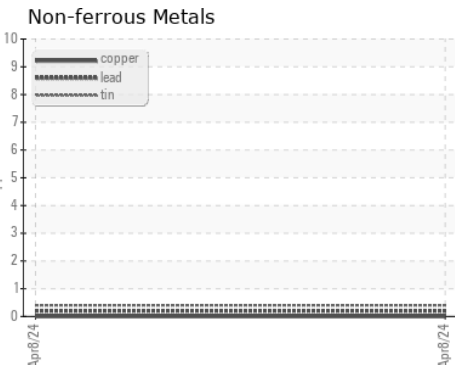
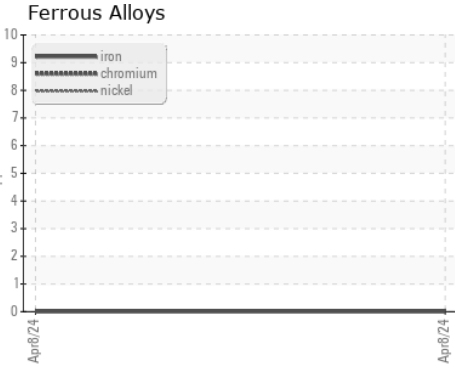
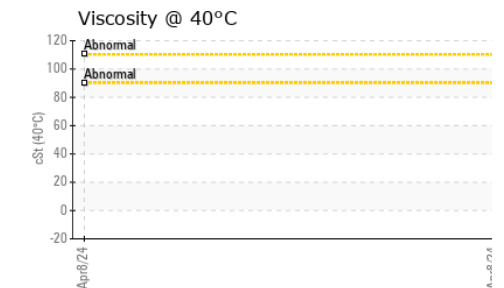
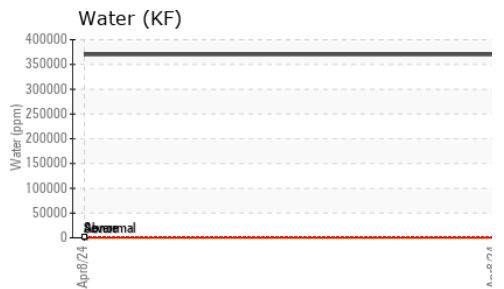
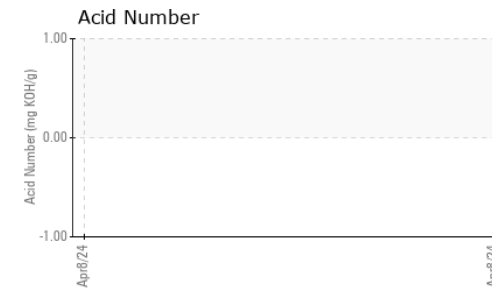
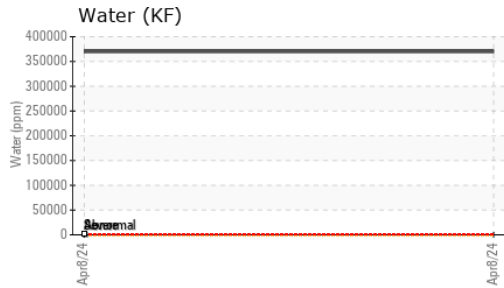
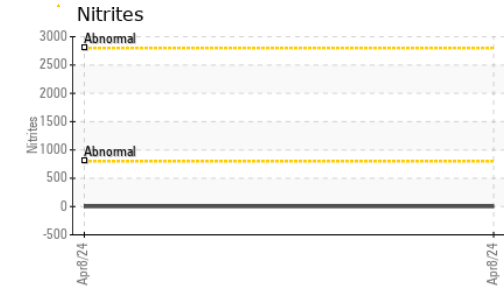
	method	limit/base	current	history1	history2
Calcium	ppm ASTM D5185m		<b>&lt;1</b>	---	---
Magnesium	ppm ASTM D5185m		<b>9</b>	---	---



# COOLANT REPORT

VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		<b>Pink</b>	---	---
Coolant Appearance	*Visual	Clear	<b>normal</b>	---	---
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06143784      **Received** : 09 Apr 2024  
**Lab Number** : **06143784**      **Tested** : 22 Apr 2024  
**Unique Number** : 10968592      **Diagnosed** : 22 Apr 2024 - Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: BoilingPoint, COOL, GlycolType, KF, PH, PrtCount, PrtCountAS)

**RIDGE ENGINEERING**  
 3987 HAMPSTEAD-MEXICO RD  
 HAMPSTEAD, MD  
 US 21074  
 Heather Abell  
 heather@ridgeeng.com; dbogart@wearcheckusa.com

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)