



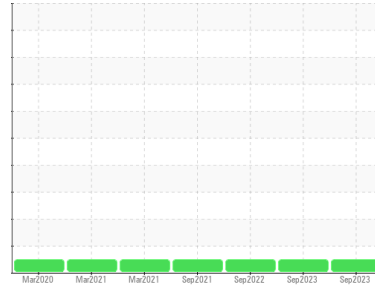
# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Area  
**OKLAHOMA/102/EG - TRUCK-OFF-HWY-HEAVY HAUL**  
 Machine Id  
**69.97L [OKLAHOMA^102^EG - TRUCK-OFF-HWY-HEAVY HAUL]**  
 Component  
**Coolant**  
 Fluid  
**CATERPILLAR ELC (--- GAL)**



## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

### Corrosion

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

### Contaminants

There is no indication of any contamination in the coolant.

### Coolant Condition

Carboxylate test failed. 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>WC0781180</b>	WC0781177	WC0649355	
Sample Date	Client Info	<b>22 Sep 2023</b>	22 Sep 2023	13 Sep 2022	
Machine Age	hrs	Client Info	<b>8394</b>	0	7777
Oil Age	hrs	Client Info	<b>0</b>	0	7777
Oil Changed	Client Info	<b>Not Chngd</b>	Not Chngd	N/A	
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL	

## PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	<b>1.060</b>	1.068	1.059
pH	Scale 0-14 ASTM D1287	<b>8.04</b>	8.13	8.30
Nitrites	ppm AP-053:2009	<b>524</b>	600	524
Reserve Alkalinity	Scale 0-20 *ASTM D1121	<b>---</b>	---	---
Percentage Glycol	% ASTM D3321	<b>44.6</b>	50.2	43.7
Freezing Point	°F ASTM D3321	<b>-21</b>	-35	-19
Total Dissolved Solids		<b>310.0</b>	343.5	310.5
Carboxylate		<b>fail</b>	fail	pass

## CORROSION INHIBITORS

method	limit/base	current	history1	history2	
Silicon	ppm ASTM D6130	0	<b>18</b>	13	29
Phosphorus	ppm ASTM D6130	0	<b>&lt;1</b>	<1	0
Boron	ppm ASTM D6130	0	<b>11</b>	11	0
Molybdenum	ppm ASTM D6130	950	<b>505</b>	581	987

## CORROSION

method	limit/base	current	history1	history2	
Iron	ppm ASTM D6130	>15	<b>1</b>	1	0
Aluminum	ppm ASTM D6130	>10	<b>&lt;1</b>	<1	<1
Copper	ppm ASTM D6130	>10	<b>1</b>	1	<1
Lead	ppm ASTM D6130	>10	<b>1</b>	1	0
Tin	ppm ASTM D6130	>10	<b>1</b>	1	0
Zinc	ppm ASTM D6130		<b>&lt;1</b>	<1	0

## CONTAMINANTS

method	limit/base	current	history1	history2	
Chlorine	ppm ASTM D6130		<b>21</b>	14	30

## CARRIER SALTS

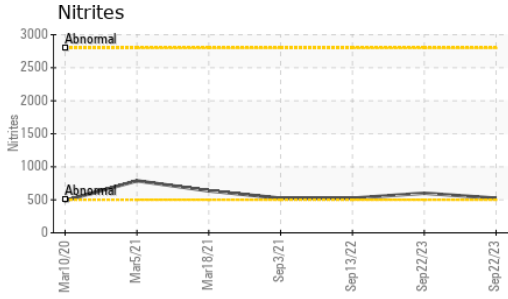
method	limit/base	current	history1	history2	
Sodium	ppm ASTM D6130		<b>3273</b>	3570	3091
Potassium	ppm ASTM D6130		<b>41</b>	49	14

## SCALE POTENTIAL

method	limit/base	current	history1	history2	
Calcium	ppm ASTM D6130		<b>4</b>	5	4
Magnesium	ppm ASTM D6130		<b>3</b>	2	4

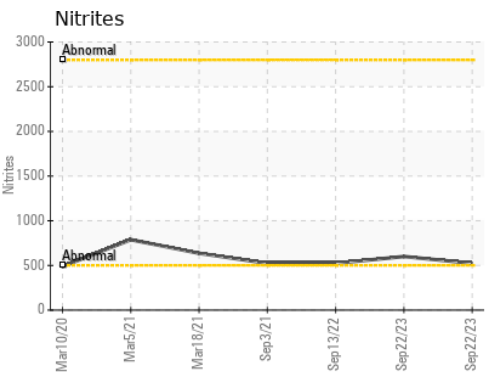
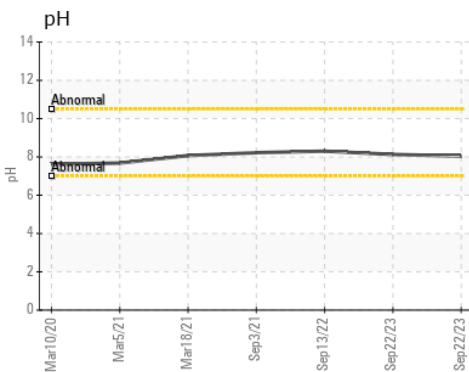
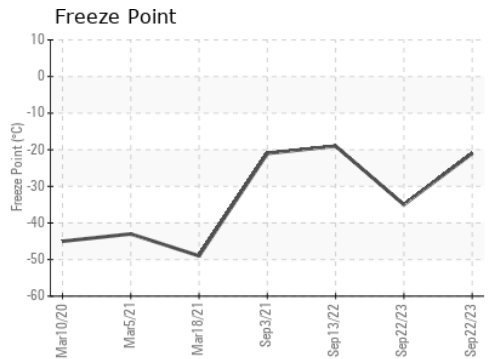
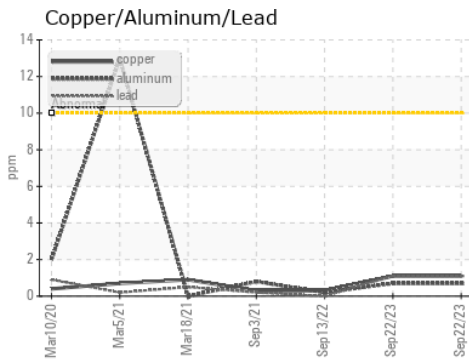
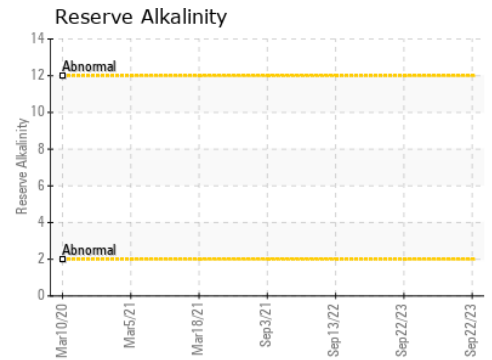
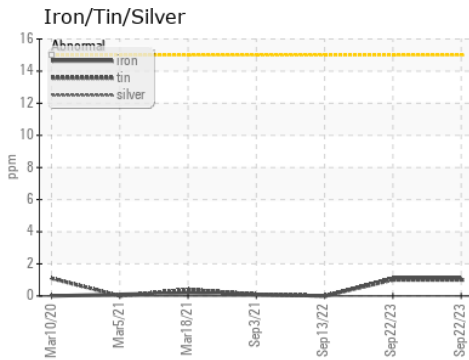


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		LtRed	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0781180 **Received** : 28 Sep 2023  
**Lab Number** : 05963901 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10670452 **Diagnostician** : Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
 doug.king@sherwood.net  
 T: (316)617-3161  
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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)