



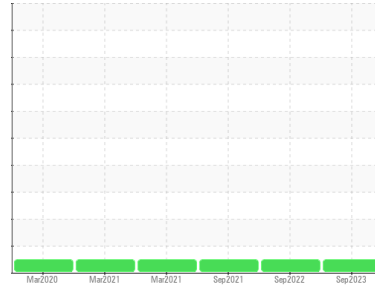
# COOLANT REPORT

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>WC0781177</b>	WC0649355	WC0606168
Sample Date	Client Info	<b>22 Sep 2023</b>	13 Sep 2022	03 Sep 2021
Machine Age	hrs Client Info	<b>0</b>	7777	7208
Oil Age	hrs Client Info	<b>0</b>	7777	500
Oil Changed	Client Info	<b>Not Chngd</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

## PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	<b>1.068</b>	1.059	---
pH	Scale 0-14 ASTM D1287	<b>8.13</b>	8.30	8.22
Nitrites	ppm AP-053:2009	<b>600</b>	524	524
Reserve Alkalinity	Scale 0-20 *ASTM D1121	<b>---</b>	---	---
Percentage Glycol	% ASTM D3321	<b>50.2</b>	43.7	43
Freezing Point	°F ASTM D3321	<b>-35</b>	-19	-21
Total Dissolved Solids		<b>343.5</b>	310.5	295.5
Carboxylate		<b>fail</b>	pass	pass

## CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130 0	<b>13</b>	29	21
Phosphorus	ppm ASTM D6130 0	<b>&lt;1</b>	0	1
Boron	ppm ASTM D6130 0	<b>11</b>	0	0
Molybdenum	ppm ASTM D6130 950	<b>581</b>	987	1084

## CORROSION

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

## CONTAMINANTS

method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130	<b>14</b>	30	28

## CARRIER SALTS

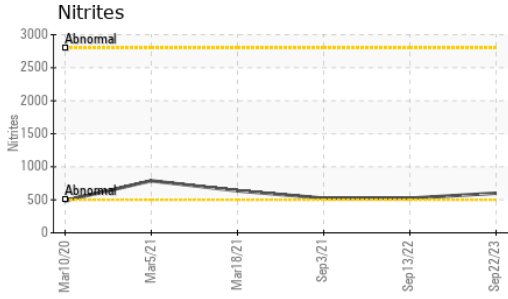
method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130	<b>3570</b>	3091	2921
Potassium	ppm ASTM D6130	<b>49</b>	14	9

## SCALE POTENTIAL

method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130	<b>5</b>	4	9
Magnesium	ppm ASTM D6130	<b>2</b>	4	3

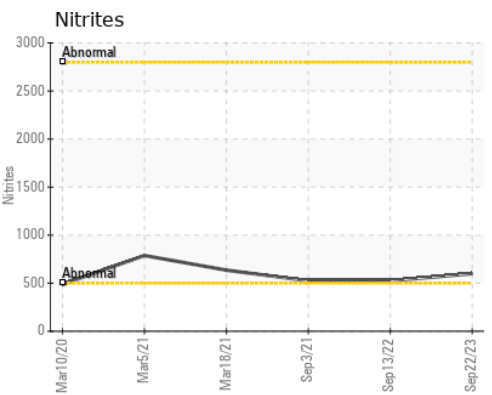
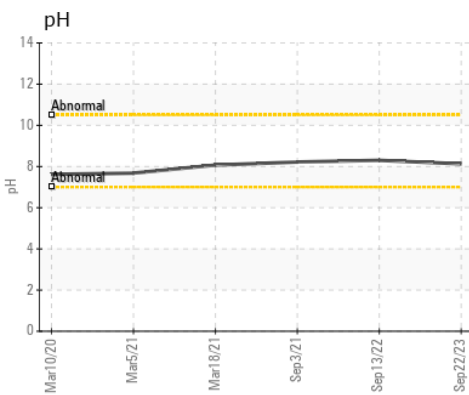
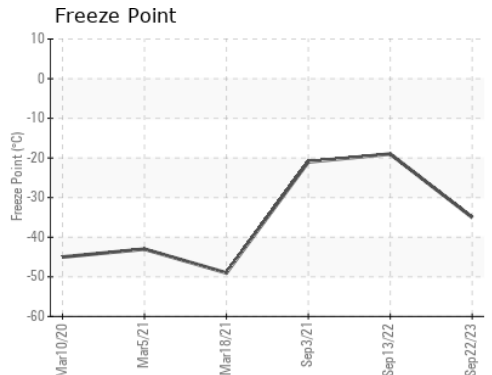
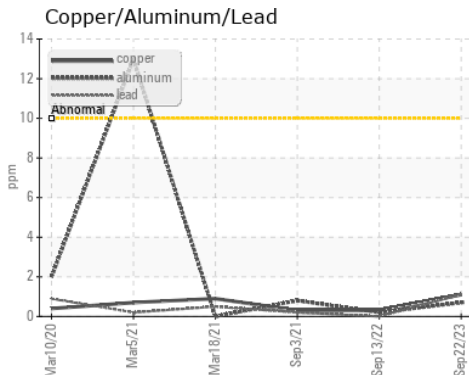
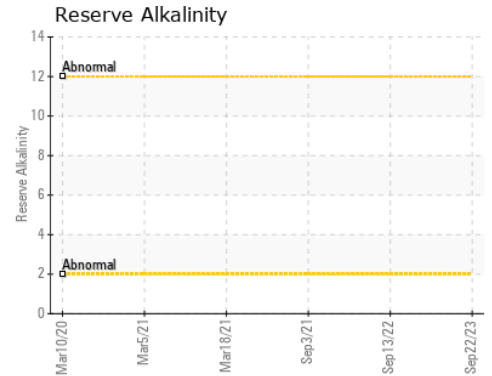
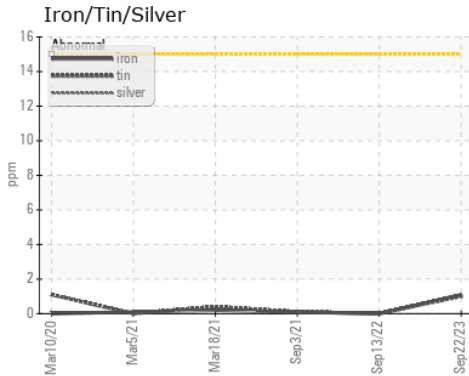


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					no image
Bottom					no image

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0781177 **Received** : 28 Sep 2023  
**Lab Number** : 05963893 **Diagnosed** : 04 Oct 2023  
**Unique Number** : 10670444 **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  
 F: x:

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)