



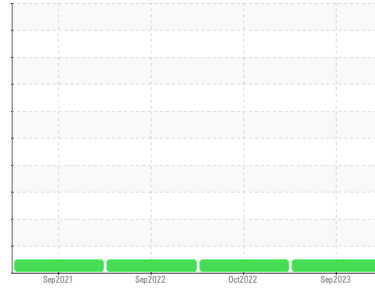
# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Area  
**OKLAHOMA/102**  
 Machine Id  
**20.523L [OKLAHOMA^102]**  
 Component  
**Coolant**  
 Fluid  
**CATERPILLAR ELC (11 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>WC0849023</b>	WC0746321	WC0686898
Sample Date	Client Info		<b>13 Sep 2023</b>	27 Oct 2022	10 Sep 2022
Machine Age	hrs	Client Info	<b>3356</b>	2313	2160
Oil Age	hrs	Client Info	<b>1000</b>	2313	1100
Oil Changed		Client Info	<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		<b>1.070</b>	1.069	1.069
pH	Scale 0-14	ASTM D1287	<b>7.42</b>	7.65	7.49
Nitrites	ppm	AP-053:2009	<b>524</b>	676	412
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>52.1</b>	51.5	51.5
Freezing Point	°F	ASTM D3321	<b>-40</b>	-38	-38
Total Dissolved Solids			<b>336.5</b>	373.0	372.0
Carboxylate			<b>fail</b>	pass	pass

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	<b>56</b>	51	59
Phosphorus	ppm	ASTM D6130	0	<b>91</b>	129	88
Boron	ppm	ASTM D6130	0	<b>9</b>	0	0
Molybdenum	ppm	ASTM D6130	950	<b>1039</b>	1200	1180

## 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>	0	<1
Copper	ppm	ASTM D6130	>10	<b>3</b>	2	2
Lead	ppm	ASTM D6130	>10	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D6130	>10	<b>&lt;1</b>	0	0
Zinc	ppm	ASTM D6130		<b>2</b>	<1	<1

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		<b>30</b>	44	40

## CARRIER SALTS

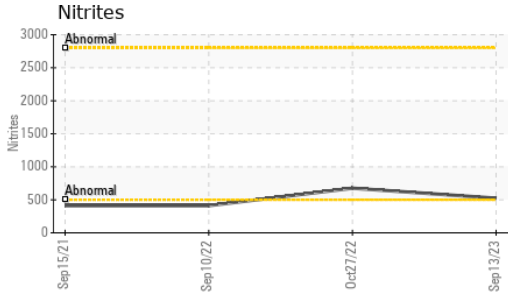
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		<b>5685</b>	5287	2771
Potassium	ppm	ASTM D6130		<b>863</b>	1056	420

## SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		<b>3</b>	14	2
Magnesium	ppm	ASTM D6130		<b>2</b>	2	2

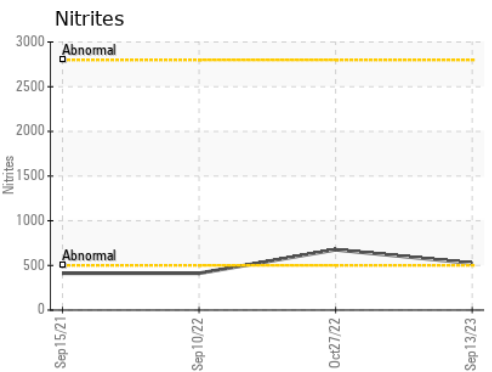
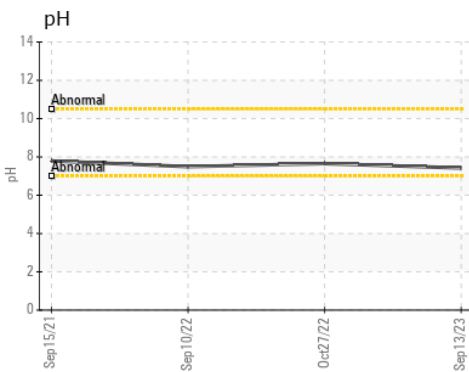
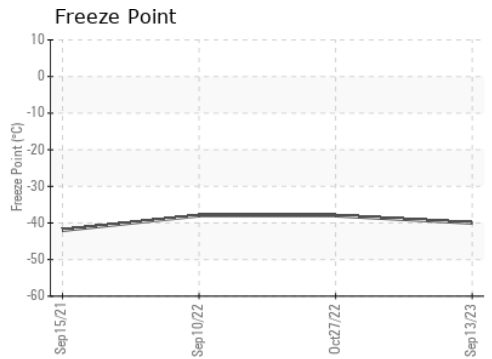
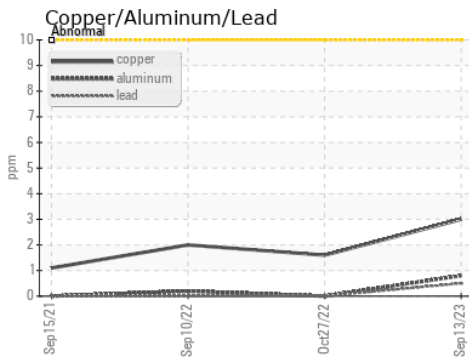
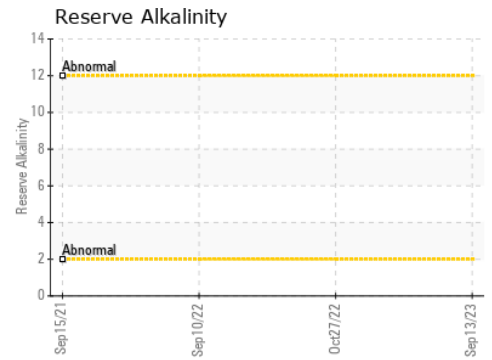
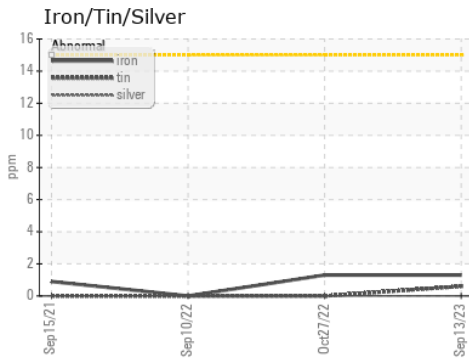


# COOLANT REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0849023 **Received** : 22 Sep 2023  
**Lab Number** : 05958898 **Diagnosed** : 26 Sep 2023  
**Unique Number** : 10660111 **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

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)