



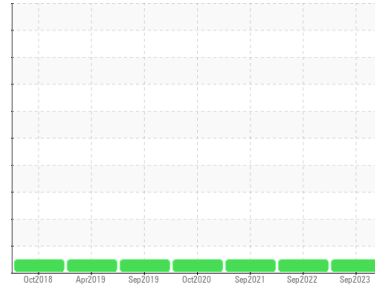
# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Area  
**KANSAS/44/EG - EXCAVATOR**  
 Machine Id  
**20.202L [KANSAS^44^EG - EXCAVATOR]**  
 Component  
**Coolant**  
 Fluid  
**CAT EXTENDED LIFE COOLANT (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. Glycol and nitrite levels are 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>WC0665272</b>	WC0673587	WC0584699
Sample Date	Client Info		<b>20 Sep 2023</b>	19 Sep 2022	14 Sep 2021
Machine Age	hrs	Client Info	<b>4764</b>	4151	3609
Oil Age	hrs	Client Info	<b>4538</b>	4151	3536
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>1.068</b>	1.068	---
pH	Scale 0-14	ASTM D1287	<b>7.45</b>	7.45	7.47
Nitrites	ppm	AP-053:2009	<b>748</b>	524	488
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>50.9</b>	50.7	51
Freezing Point	°F	ASTM D3321	<b>-35</b>	-35	-40
Total Dissolved Solids			<b>367.0</b>	395.5	441.5
Carboxylate			<b>fail</b>	pass	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	<b>11</b>	21	17
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	34	<1
Boron	ppm	ASTM D6130	0	<b>2</b>	0	0
Molybdenum	ppm	ASTM D6130	950	<b>794</b>	893	868

## CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	<b>0</b>	0	<1
Aluminum	ppm	ASTM D6130	>10	<b>2</b>	3	2
Copper	ppm	ASTM D6130	>10	<b>5</b>	6	6
Lead	ppm	ASTM D6130	>10	<b>0</b>	0	<1
Tin	ppm	ASTM D6130	>10	<b>0</b>	0	<1
Zinc	ppm	ASTM D6130		<b>6</b>	6	5

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		<b>10</b>	27	32

## CARRIER SALTS

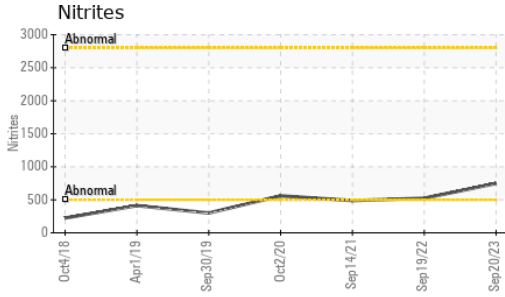
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		<b>6014</b>	3400	4047
Potassium	ppm	ASTM D6130		<b>165</b>	113	94


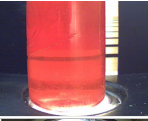
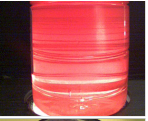

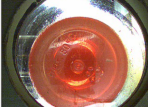

## SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		<b>10</b>	9	6
Magnesium	ppm	ASTM D6130		<b>2</b>	3	3

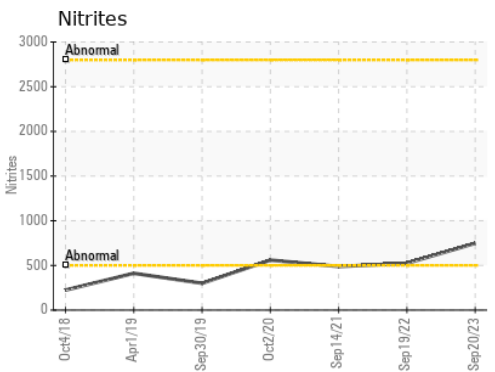
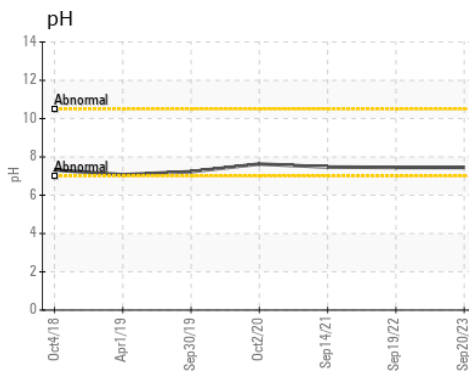
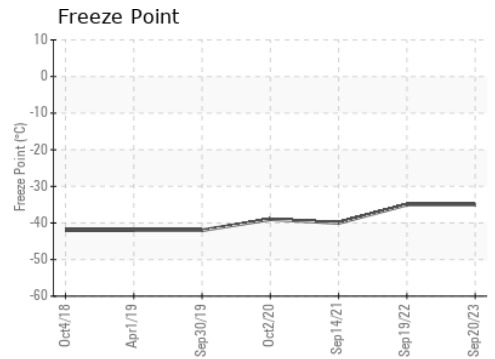
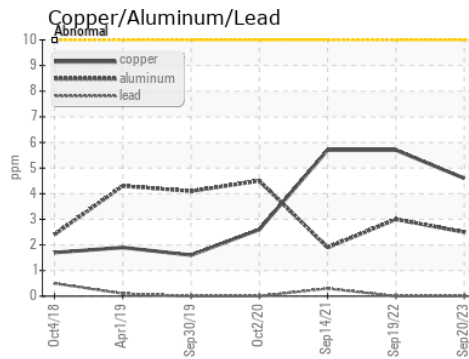
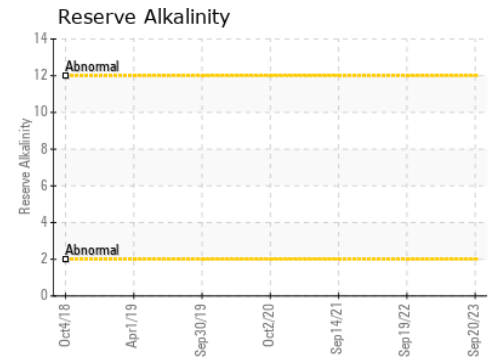
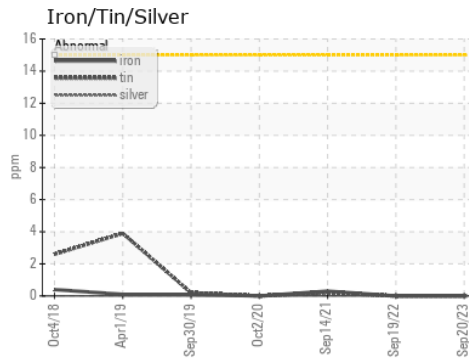


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0665272 **Received** : 26 Sep 2023  
**Lab Number** : 05961561 **Diagnosed** : 28 Sep 2023  
**Unique Number** : 10662774 **Diagnostician** : Doug Bogart  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**SHERWOOD CONSTRUCTION CO INC**  
 3219 WEST MAY ST  
 WICHITA, KS  
 US 67213  
 Contact: DOUG KING  
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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)