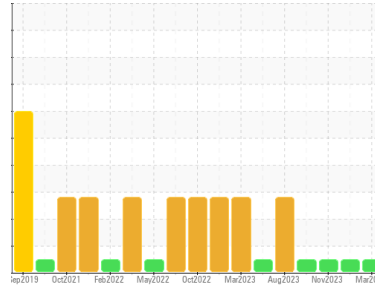




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area  
**Martinsville**  
 Machine Id  
**[Martinsville] Coolant - Starboard Genset**  
 Component  
**Coolant**  
 Fluid  
**CATERPILLAR ELC (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service. ( Customer Sample Comment: George willis )

### 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>WC0860096</b>	WC0845965	WC0845971
Sample Date	Client Info		<b>18 Mar 2024</b>	23 Dec 2023	27 Nov 2023
Machine Age	hrs	Client Info	<b>1874</b>	789	588
Oil Age	hrs	Client Info	<b>0</b>	789	588
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		<b>1.072</b>	1.073	1.067
pH	Scale 0-14	ASTM D1287	<b>8.26</b>	8.12	8.13
Nitrites	ppm	AP-053:2009	<b>936</b>	676	748
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	<b>53.8</b>	54.2	50.0
Freezing Point	°F	ASTM D3321	<b>-43</b>	-45	-35
Total Dissolved Solids			<b>365.0</b>	448.5	377.0
Carboxylate			<b>fail</b>	fail	pass

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	<b>17</b>	17	15
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	<1	11
Boron	ppm	ASTM D6130	0	<b>68</b>	67	61
Molybdenum	ppm	ASTM D6130	950	<b>431</b>	460	408

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		<b>109</b>	104	83

## CARRIER SALTS

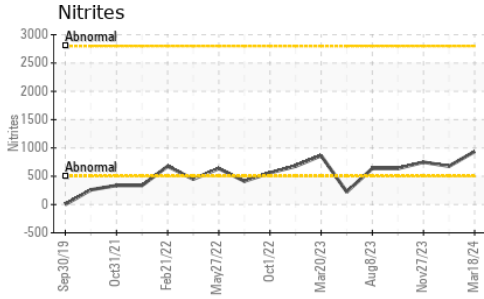
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		<b>4176</b>	4097	3445
Potassium	ppm	ASTM D6130		<b>1821</b>	1749	1447

## SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		<b>50</b>	33	28
Magnesium	ppm	ASTM D6130		<b>19</b>	16	14

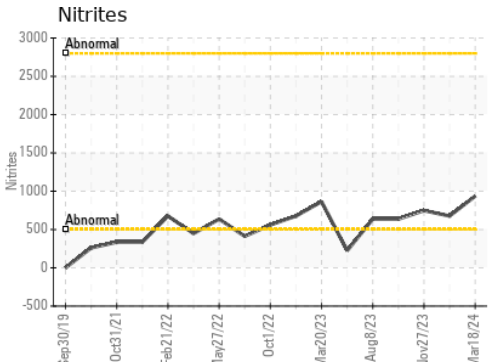
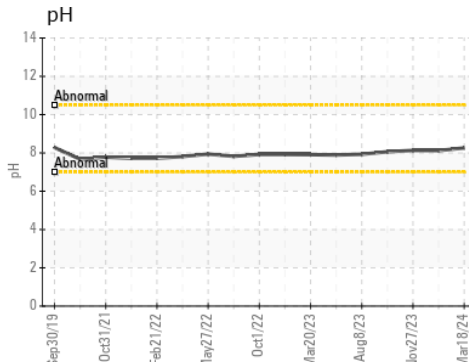
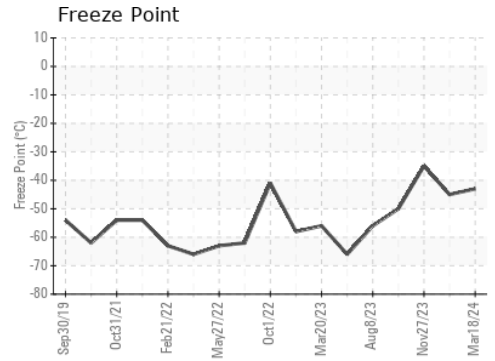
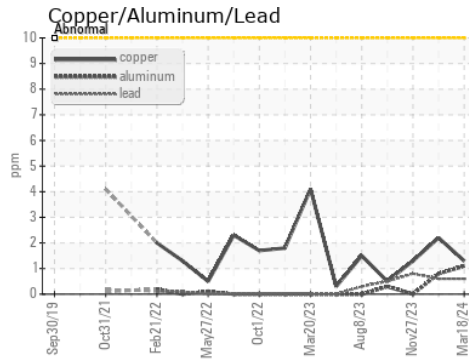
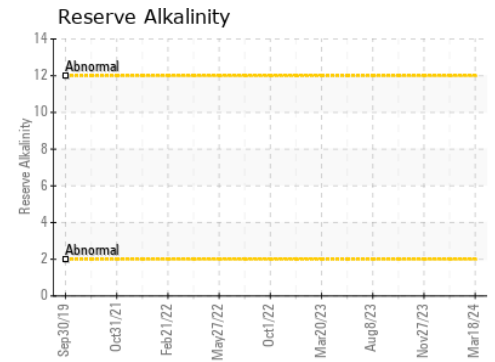
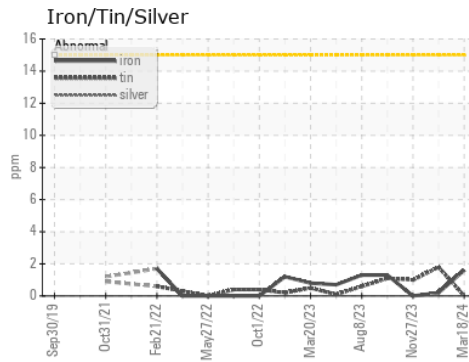


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0860096

Lab Number : 06131270

Unique Number : 10950735

Test Package : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF )

Received : 27 Mar 2024

Tested : 02 Apr 2024

Diagnosed : 02 Apr 2024 - Jonathan Hester

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

cagumbert@marathonpetroleum.com

T: (606)585-3950

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)