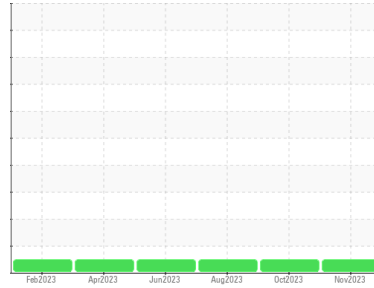




# COOLANT REPORT

Sample Rating Trend

**NORMAL**



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

## DIAGNOSIS

### Recommendation

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol.

### 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

The glycol level is lower than 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>WC0846121</b>	WC0804889	WC0769036
Sample Date	Client Info		<b>27 Nov 2023</b>	27 Oct 2023	06 Aug 2023
Machine Age	hrs	Client Info	<b>0</b>	25832	24851
Oil Age	hrs	Client Info	<b>0</b>	0	0
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
Specific Gravity	*ASTM D1298		<b>1.033</b>	1.027	1.031
pH	Scale 0-14	ASTM D1287	<b>8.55</b>	8.41	8.41
Nitrites	ppm	AP-053:2009	<b>412</b>	488	412
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>25.0</b>	21.7	24.0
Freezing Point	°F	ASTM D3321	<b>10</b>	15	11
Total Dissolved Solids			<b>149.5</b>	89.0	142.0
Carboxylate			<b>fail</b>	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	<b>62</b>	10	4
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	<1	0
Boron	ppm	ASTM D6130	0	<b>0</b>	0	5
Molybdenum	ppm	ASTM D6130	950	<b>107</b>	48	230

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		<b>16</b>	31	44

## CARRIER SALTS

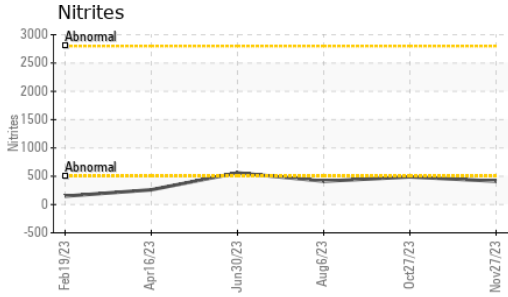
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		<b>1644</b>	1617	3184
Potassium	ppm	ASTM D6130		<b>148</b>	215	284


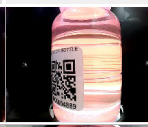




## SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		<b>4</b>	6	12
Magnesium	ppm	ASTM D6130		<b>&lt;1</b>	1	2

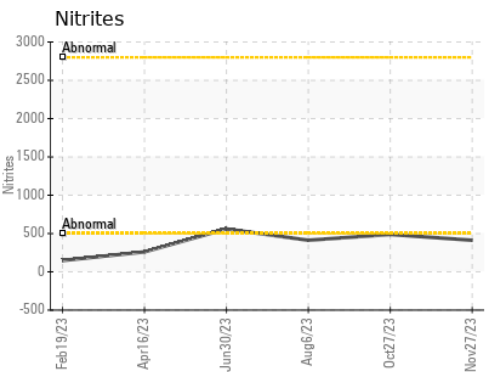
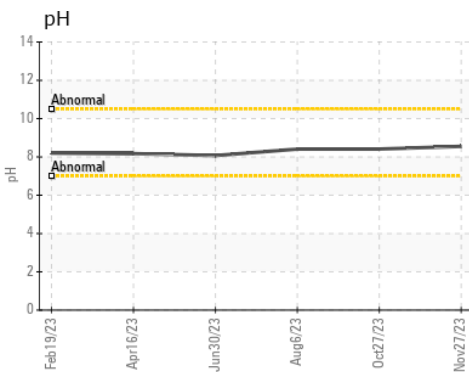
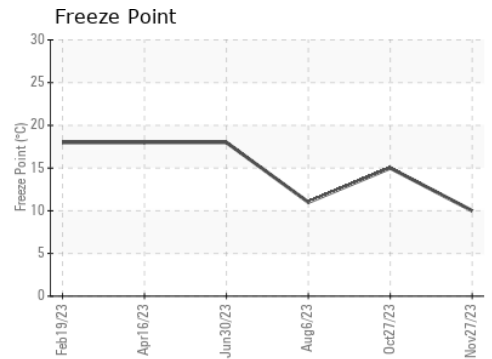
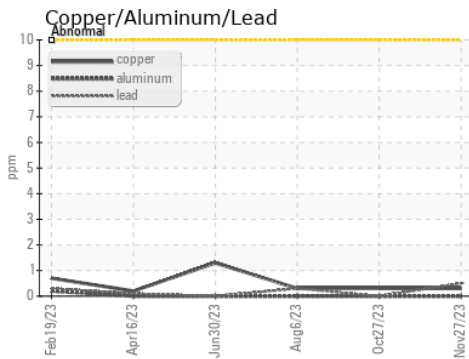
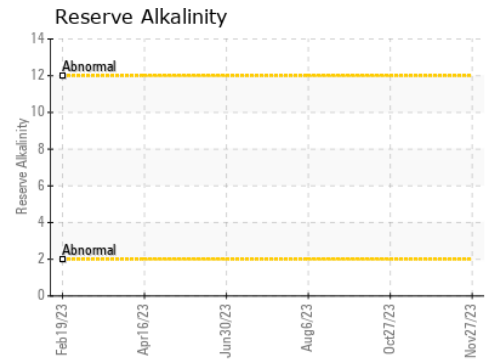
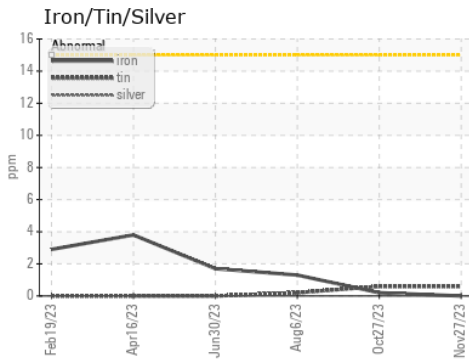


# COOLANT REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0846121      **Received** : 06 Dec 2023  
**Lab Number** : **06026975**      **Diagnosed** : 14 Dec 2023  
**Unique Number** : 10776766      **Diagnostician** : Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: COOL, ICP, KF )

**MARATHON PETROLEUM CO.**  
 101 12TH ST  
 CATLETTSBURG, KY  
 US 41169  
 Contact: CORY GUMBERT  
 cagumbert@marathonpetroleum.com  
 T: (606)585-3950  
 F: x:

Certificate L2367  
 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)