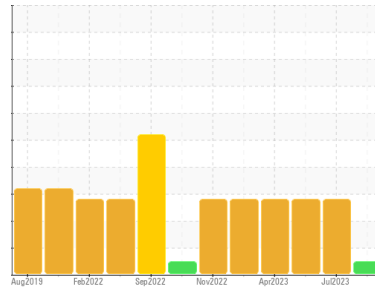




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



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

## DIAGNOSIS

### Recommendation

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>WC0769132</b>	WC0769446	WC0769437
Sample Date	Client Info			<b>08 Aug 2023</b>	10 Jul 2023	13 Jun 2023
Machine Age	hrs	Client Info		<b>4189</b>	3795	3488
Oil Age	hrs	Client Info		<b>4189</b>	3795	3488
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	Not Chngd
Sample Status				<b>NORMAL</b>	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		<b>1.082</b>	1.092	1.091
pH	Scale 0-14	ASTM D1287		<b>7.70</b>	7.72	7.67
Nitrites	ppm	AP-053:2009		<b>636</b>	524	336
Reserve Alkalinity	Scale 0-20	*ASTM D1121		<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321		<b>62.1</b>	▲ 72.1	▲ 71.6
Freezing Point	°F	ASTM D3321		<b>-61</b>	-65	-66
Total Dissolved Solids				<b>526.5</b>	611.0	761.0
Carboxylate				<b>fail</b>	pass	fail

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	<b>18</b>	42	33
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	0	0
Boron	ppm	ASTM D6130	0	<b>209</b>	210	293
Molybdenum	ppm	ASTM D6130	950	<b>152</b>	150	223

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	<b>3</b>	3	4
Aluminum	ppm	ASTM D6130	>10	<b>0</b>	<1	0
Copper	ppm	ASTM D6130	>10	<b>3</b>	6	4
Lead	ppm	ASTM D6130	>10	<b>&lt;1</b>	<1	0
Tin	ppm	ASTM D6130	>10	<b>&lt;1</b>	1	<1
Zinc	ppm	ASTM D6130		<b>&lt;1</b>	<1	<1

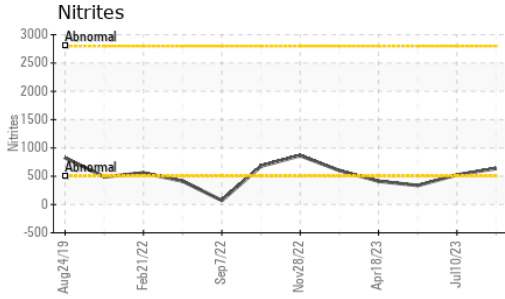
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		<b>241</b>	282	368

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		<b>5957</b>	5615	6499
Potassium	ppm	ASTM D6130		<b>5301</b>	6395	8936

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		<b>140</b>	120	185
Magnesium	ppm	ASTM D6130		<b>60</b>	51	75

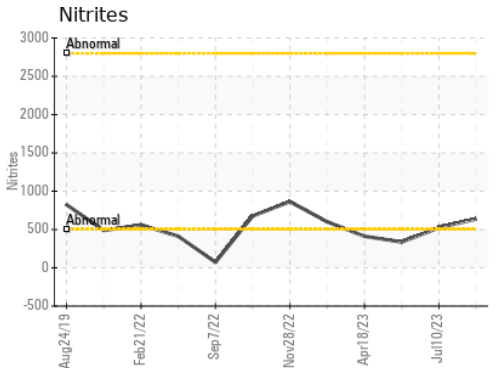
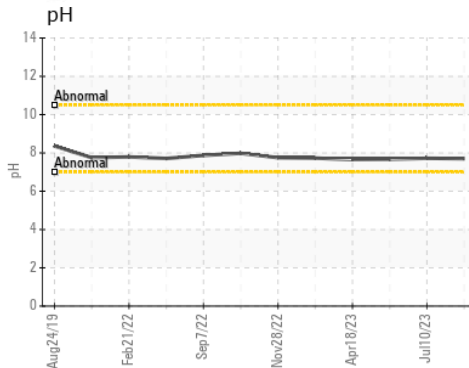
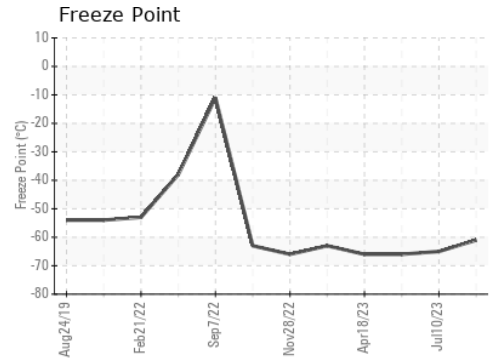
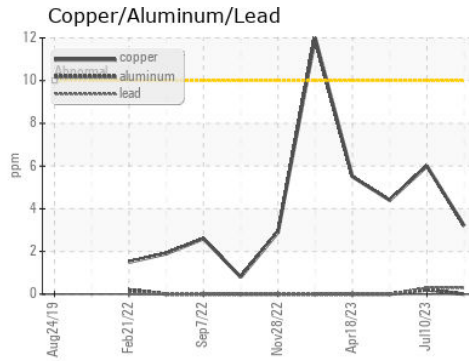
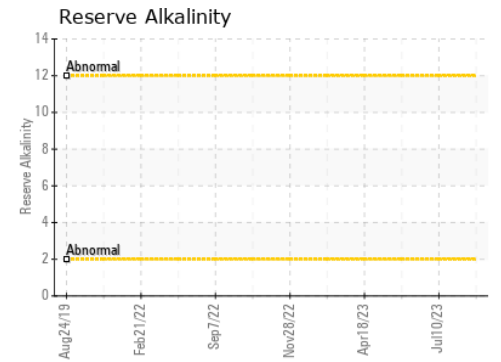
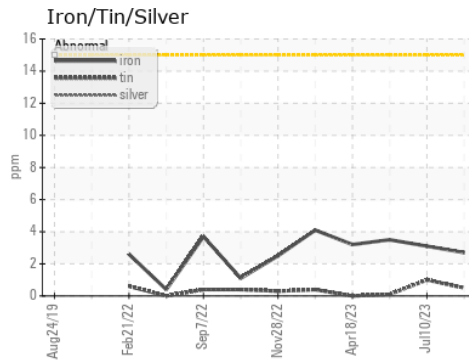


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0769132 **Received** : 17 Aug 2023  
**Lab Number** : 05927675 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10607622 **Diagnostician** : Doug Bogart  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**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)