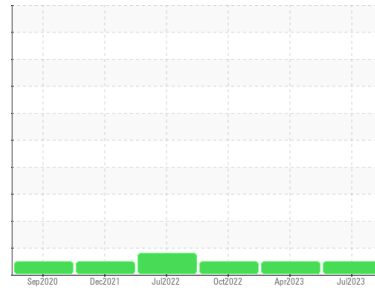




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Findlay**

Machine Id

**[Findlay] 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.

### 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>WC0769091</b>	WC0735490	WC0683417
Sample Date	Client Info			<b>28 Jul 2023</b>	21 Apr 2023	12 Oct 2022
Machine Age	hrs	Client Info		<b>6832</b>	5634	4009
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>1.062</b>	1.062	1.054
pH	Scale 0-14	ASTM D1287		<b>8.45</b>	8.35	9.15
Nitrites	ppm	AP-053:2009		<b>676</b>	676	260
Reserve Alkalinity	Scale 0-20	*ASTM D1121		<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321		<b>45.8</b>	45.5	39.8
Freezing Point	°F	ASTM D3321		<b>-24</b>	-24	-11
Total Dissolved Solids				<b>294.5</b>	314.5	310.0
Carboxylate				<b>fail</b>	pass	pass

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	<b>11</b>	12	20
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	0	0
Boron	ppm	ASTM D6130	0	<b>5</b>	9	4
Molybdenum	ppm	ASTM D6130	950	<b>998</b>	955	962

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

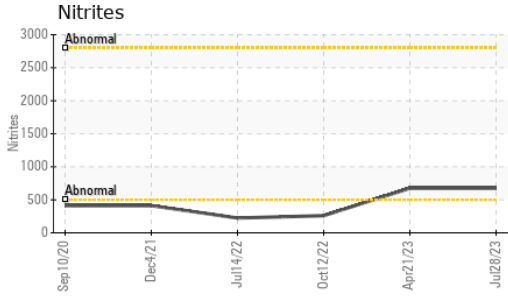
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		<b>19</b>	27	10

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		<b>5653</b>	5449	4605
Potassium	ppm	ASTM D6130		<b>0</b>	15	233

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		<b>2</b>	2	2
Magnesium	ppm	ASTM D6130		<b>4</b>	4	1

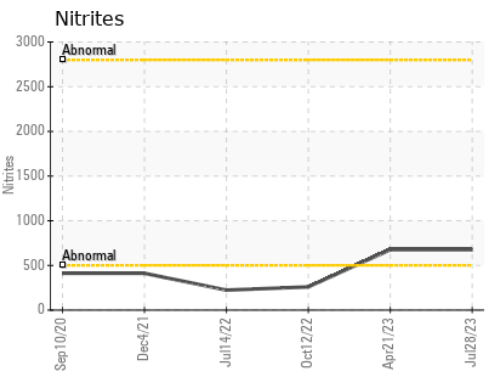
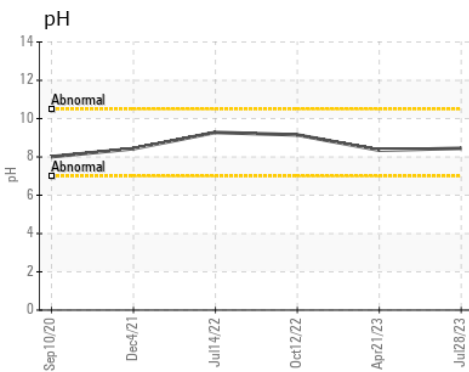
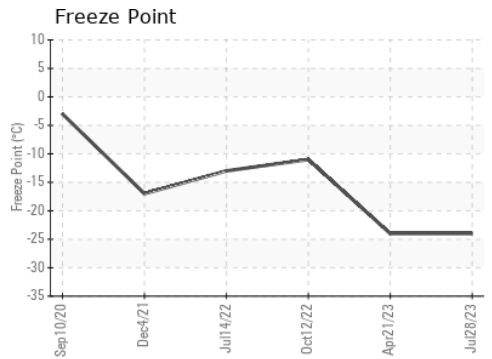
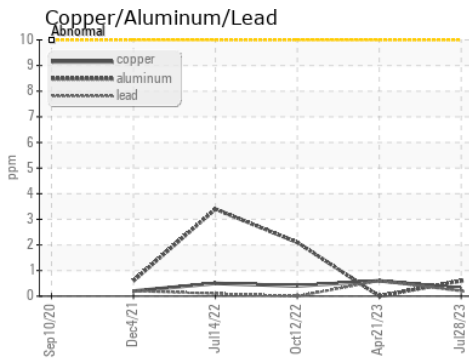
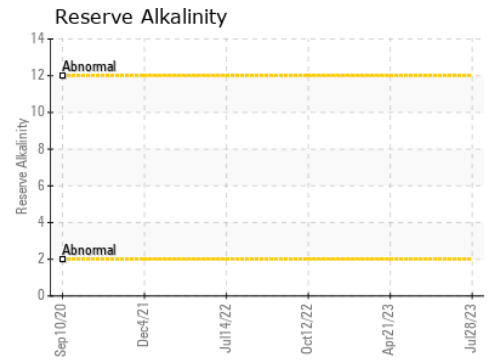
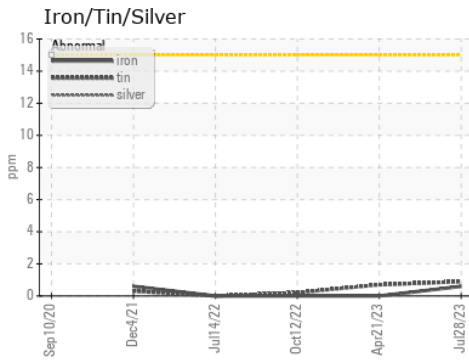


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		<b>Red</b>	LtRed	Red
Coolant Appearance	*Visual	Clear	<b>normal</b>	normal	normal
Color			no image		
Bottom			no image		

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0769091      **Received** : 10 Aug 2023  
**Lab Number** : **05921900**      **Diagnosed** : 15 Aug 2023  
**Unique Number** : 10601847      **Diagnostician** : Doug Bogart  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**MARATHON PETROLEUM CO.**  
 101 12TH ST  
 CATLETTSBURG, KY  
 US 41169  
 Contact: SHAWN MCCLASKEY  
 stmccclaskey@marathonpetroleum.com  
 T: (606)739-2416  
 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)