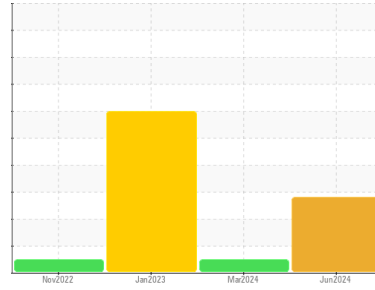




# COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area

Detroit

Machine Id

[Detroit] Coolant - Port 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 nitrite level is acceptable. The pH level of this fluid is within the acceptable limits. The carboxylate level of this fluid is acceptable.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0804740	WC0804775	WC0731928
Sample Date	Client Info		03 Jun 2024	25 Mar 2024	30 Jan 2023
Machine Age	hrs	Client Info	23178	22305	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	NORMAL	SEVERE

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.013	1.044	1.031
pH	Scale 0-14 ASTM D1287		8.89	8.56	8.54
Nitrites	ppm AP-053:2009		900	524	448
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		▲ 11.8	32.6	23.4
Freezing Point	°F ASTM D3321		25	1	12
Total Dissolved Solids			90.0	237.0	167.0
Carboxylate			pass	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	0	4	3	37
Phosphorus	ppm ASTM D6130	0	12	2	30
Boron	ppm ASTM D6130	0	0	7	28
Molybdenum	ppm ASTM D6130	950	19	451	70

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	3	2	▲ 33
Aluminum	ppm ASTM D6130	>10	<1	<1	2
Copper	ppm ASTM D6130	>10	0	1	2
Lead	ppm ASTM D6130	>10	0	<1	2
Tin	ppm ASTM D6130	>10	0	<1	<1
Zinc	ppm ASTM D6130		0	0	1

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		48	24	124

## CARRIER SALTS

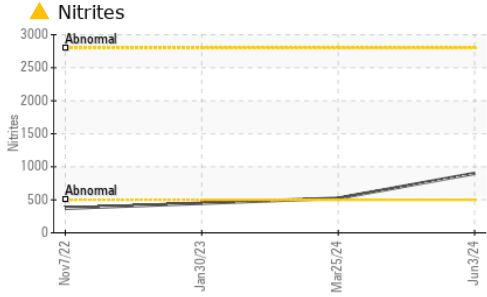
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		836	3327	4056
Potassium	ppm ASTM D6130		69	6	186

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		17	23	85
Magnesium	ppm ASTM D6130		<1	4	3

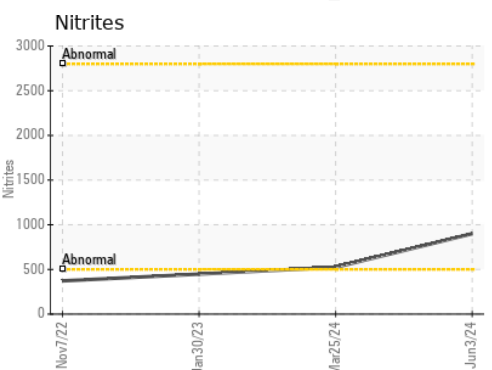
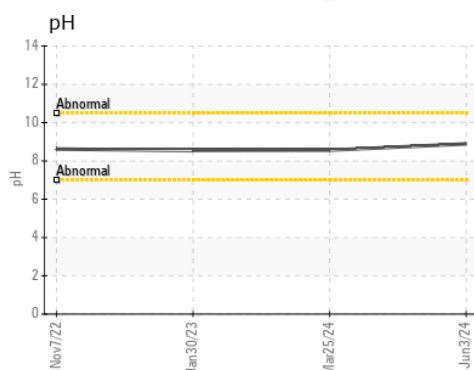
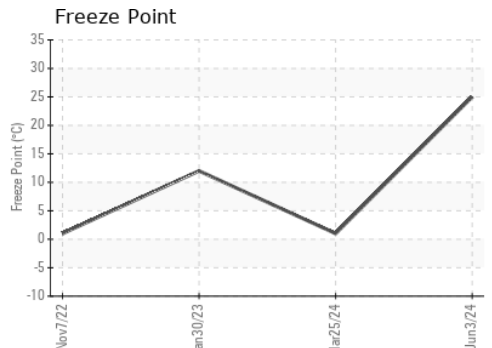
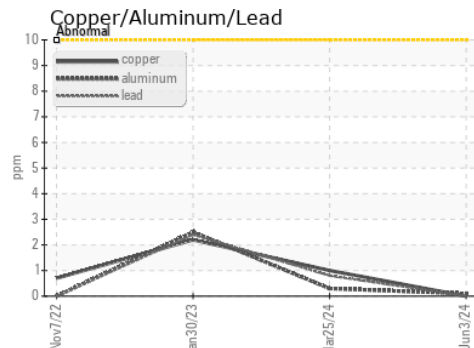
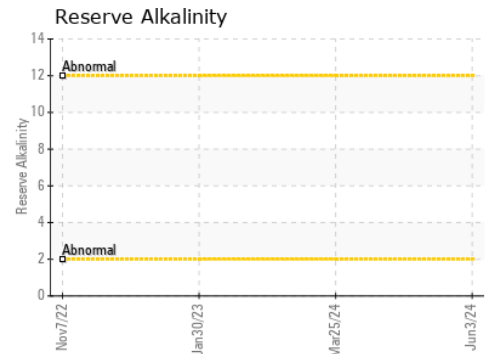
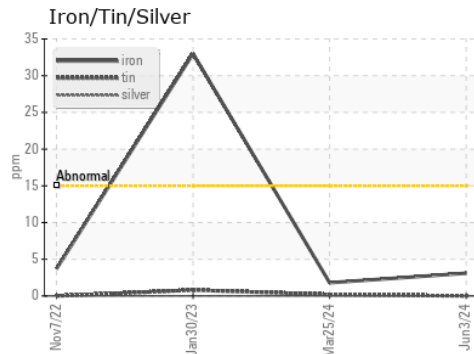


# COOLANT REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0804740 **Received** : 25 Jun 2024  
**Lab Number** : 06220317 **Tested** : 16 Jul 2024  
**Unique Number** : 11098514 **Diagnosed** : 16 Jul 2024 - Doug Bogart  
**Test Package** : COOL- ( Additional Tests: GlycolType, ICP, KF )

**MARATHON PETROLEUM CO.**  
 101 12TH ST  
 CATLETTSBURG, KY  
 US 41169  
 Contact: CORY GUMBERT  
 cagumbert@marathonpetroleum.com

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)

T: (606)585-3950

F: x: