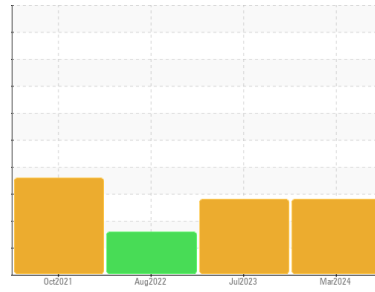




# COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area

Catlettsburg

Machine Id

[Catlettsburg] Coolant - Starboard Genset

Component

Coolant

Fluid

HYBRID (HOAT) COOLANT (--- 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		WC0769553	WC0769539	WC0683576
Sample Date	Client Info		30 Mar 2024	01 Jul 2023	02 Aug 2022
Machine Age	hrs	Client Info	9236	7057	0
Oil Age	hrs	Client Info	0	7057	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	SEVERE

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.006	1.014	1.018
pH	Scale 0-14 ASTM D1287		9.56	9.48	9.63
Nitrites	ppm AP-053:2009		600	260	2600
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		▲ 8.1	▲ 12.5	15.1
Freezing Point	°F ASTM D3321		27	24	21
Total Dissolved Solids			162.5	238.5	310.5
Carboxylate			pass	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130		47	186	181
Phosphorus	ppm ASTM D6130		109	414	163
Boron	ppm ASTM D6130		138	506	569
Molybdenum	ppm ASTM D6130		198	638	597

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		40	106	74

## CARRIER SALTS

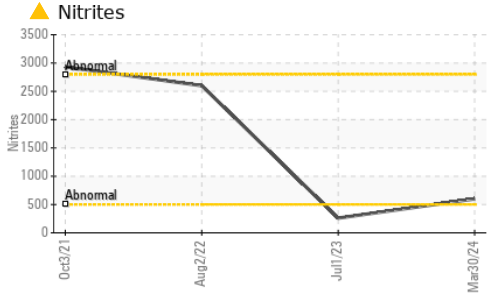
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		1982	5300	2770
Potassium	ppm ASTM D6130		445	1582	542

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		6	4	3
Magnesium	ppm ASTM D6130		3	<1	<1

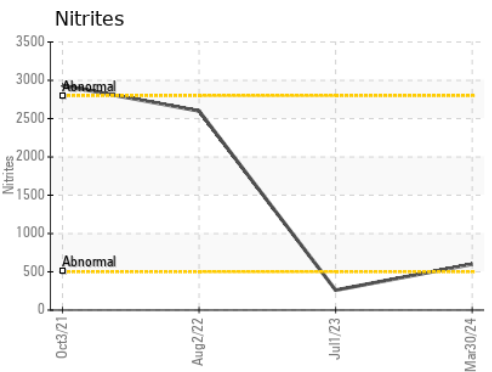
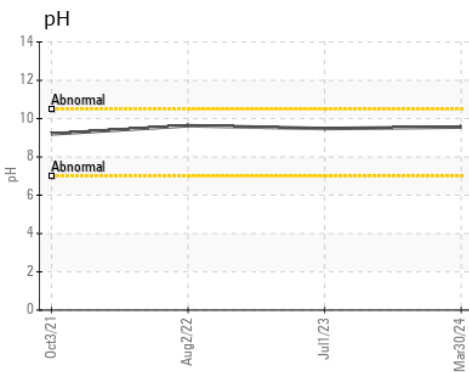
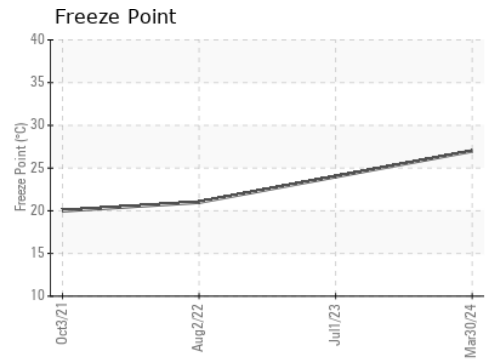
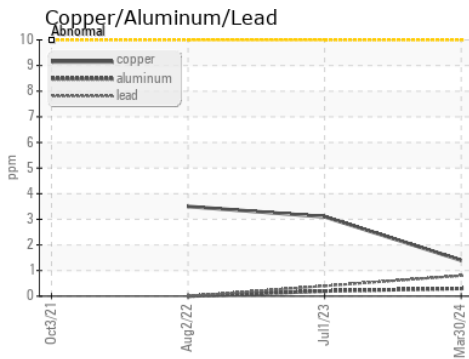
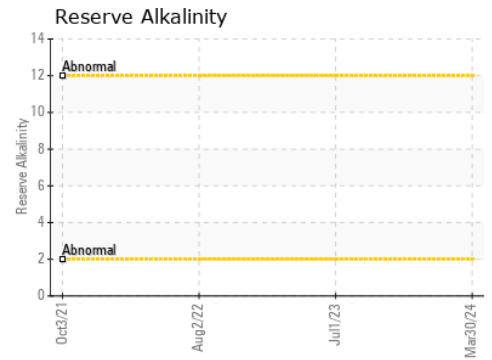
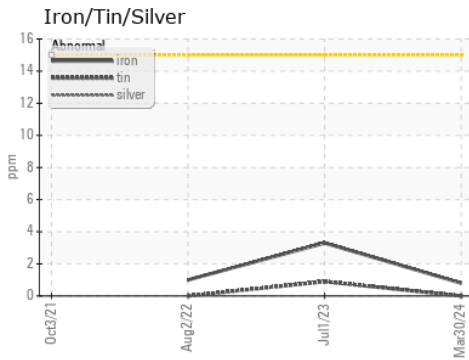


# COOLANT REPORT



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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0769553 **Received** : 05 Apr 2024  
**Lab Number** : 06140438 **Tested** : 10 Apr 2024  
**Unique Number** : 10965246 **Diagnosed** : 10 Apr 2024 - Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP )

**MARATHON PETROLEUM CO.**  
 101 12TH ST  
 CATLETTSBURG, KY  
 US 41169  
 Contact: Barry Bridges  
 babridges@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)