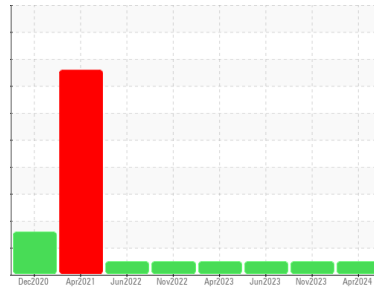




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Nashville**

Machine Id

**[Nashville] Coolant - Starboard Genset**

Component

**Coolant**

Fluid

**HYBRID (HOAT) COOLANT (--- GAL)**

## DIAGNOSIS

### Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service. ( Customer Sample Comment: Dparnell )

### 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>WC0874907</b>	WC0805246	WC0683264
Sample Date	Client Info		<b>15 Apr 2024</b>	27 Nov 2023	13 Jun 2023
Machine Age	hrs	Client Info	<b>1696</b>	241	0
Oil Age	hrs	Client Info	<b>1696</b>	241	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
Glycol Type	FT-IR		<b>---</b>	---	---
Specific Gravity	*ASTM D1298		<b>1.055</b>	1.057	1.049
pH	Scale 0-14	ASTM D1287	<b>8.50</b>	8.30	8.23
Nitrites	ppm	AP-053:2009	<b>560</b>	636	412
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>40.1</b>	41.8	36.5
Freezing Point	°F	ASTM D3321	<b>-13</b>	-15	-5
Total Dissolved Solids			<b>312.5</b>	206.5	281.0
Carboxylate			<b>fail</b>	fail	pass

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	<b>12</b>	235	28
Phosphorus	ppm	ASTM D6130	<b>0</b>	0	0
Boron	ppm	ASTM D6130	<b>23</b>	19	77
Molybdenum	ppm	ASTM D6130	<b>375</b>	474	1014

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		<b>19</b>	15

## CARRIER SALTS

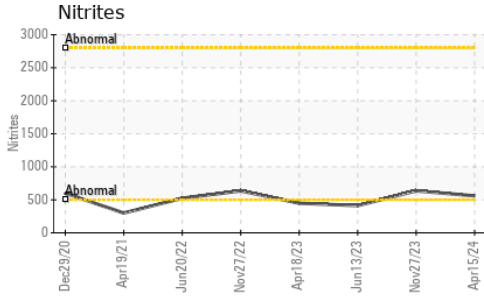
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		<b>3265</b>	3034
Potassium	ppm	ASTM D6130		<b>8</b>	7

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		<b>12</b>	28
Magnesium	ppm	ASTM D6130		<b>2</b>	2

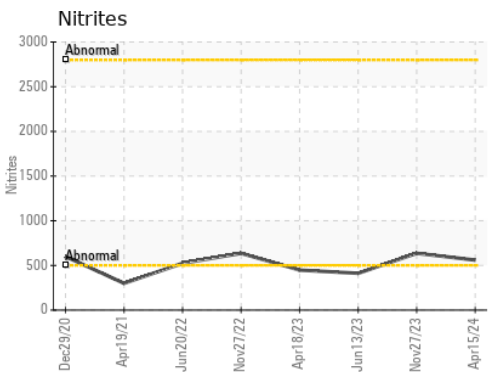
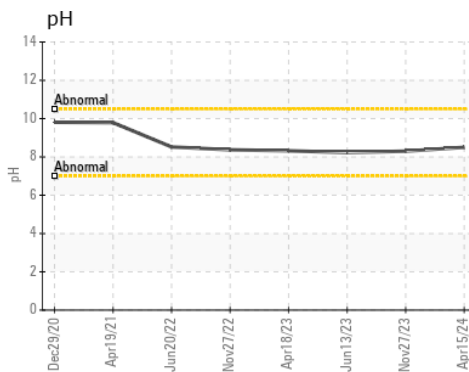
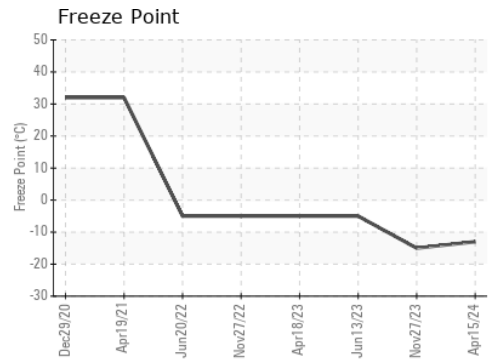
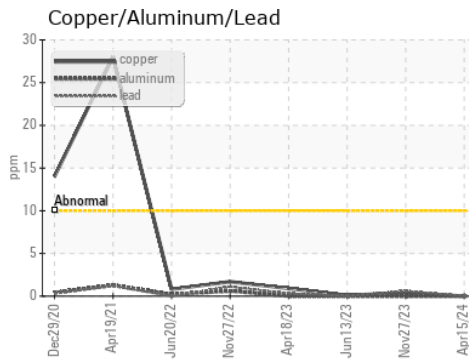
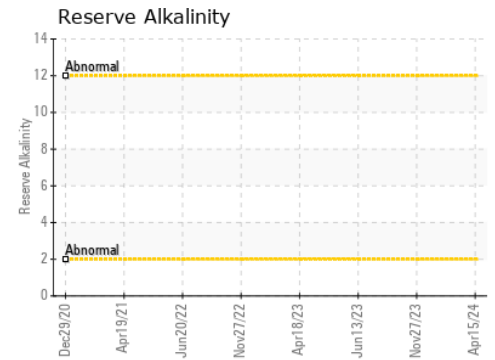
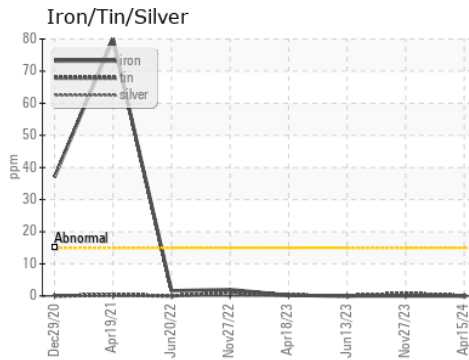


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0874907  
**Lab Number** : 06158227  
**Unique Number** : 10993650  
**Test Package** : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF )

**Received** : 23 Apr 2024  
**Tested** : 29 Apr 2024  
**Diagnosed** : 29 Apr 2024 - Jonathan Hester

**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: