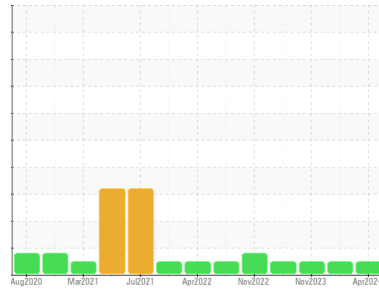




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Nashville**

Machine Id

**[Nashville] Coolant - Starboard Main Engine**

Component

**Coolant**

Fluid

**CAT EXTENDED LIFE COOLANT (ELC) (--- 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. The glycol level is 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>WC0874888</b>	WC0846040	WC0805235
Sample Date	Client Info		<b>15 Apr 2024</b>	29 Feb 2024	27 Nov 2023
Machine Age	hrs	Client Info	<b>59508</b>	0	0
Oil Age	hrs	Client Info	<b>4441</b>	0	0
Oil Changed		Client Info	<b>N/A</b>	Not Changd	Not Changd
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>1.056</b>	1.042	1.054
pH	Scale 0-14	ASTM D1287	<b>8.32</b>	8.76	8.68
Nitrites	ppm	AP-053:2009	<b>524</b>	788	488
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>41.7</b>	31.1	40.0
Freezing Point	°F	ASTM D3321	<b>-15</b>	3	-13
Total Dissolved Solids			<b>285.5</b>	303.0	268.5
Carboxylate			<b>fail</b>	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	<b>5</b>	5
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	2
Boron	ppm	ASTM D6130	0	<b>13</b>	20
Molybdenum	ppm	ASTM D6130	950	<b>301</b>	400

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	<b>0</b>	<1
Aluminum	ppm	ASTM D6130	>10	<b>0</b>	<1
Copper	ppm	ASTM D6130	>10	<b>0</b>	2
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>13</b>	18

## CARRIER SALTS

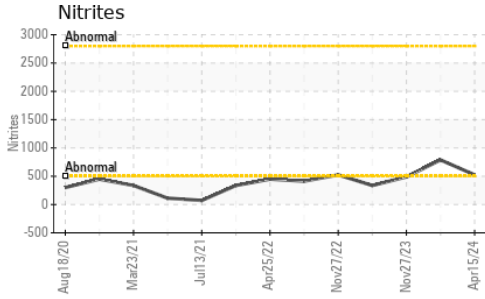
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		<b>3132</b>	3779
Potassium	ppm	ASTM D6130		<b>9</b>	11

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		<b>4</b>	6
Magnesium	ppm	ASTM D6130		<b>5</b>	3

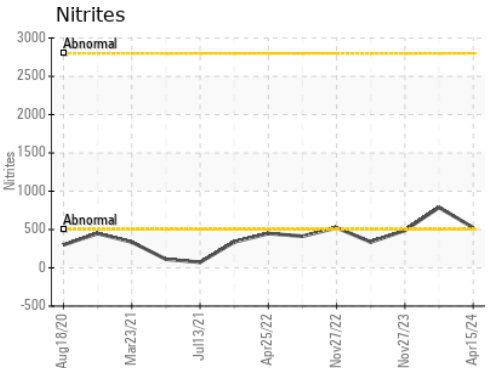
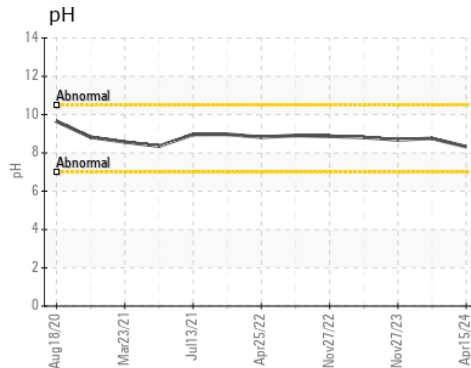
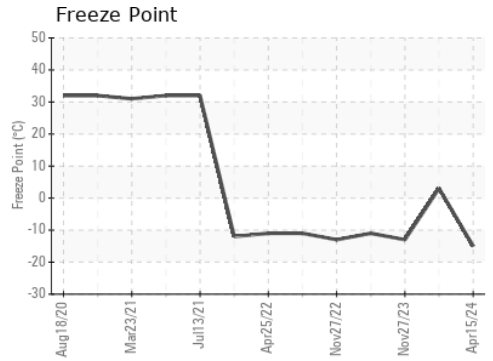
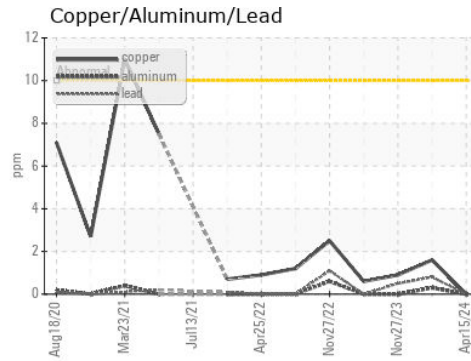
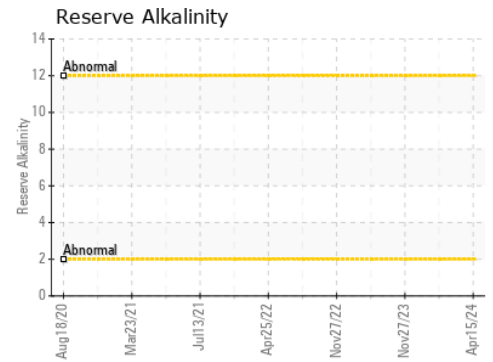
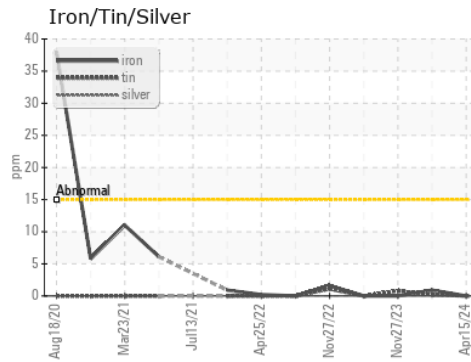


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0874888

Lab Number : 06158225

Unique Number : 10993648

Test Package : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF )

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)

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

T: (606)585-3950

F: x: