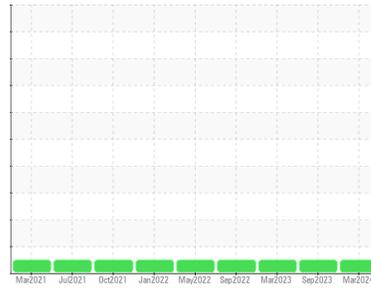




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Tri State

Machine Id

[Tri State] Coolant - Starboard Genset

Component

Starboard Coolant

Fluid

EXTENDED LIFE COOLANT (--- GAL)

DIAGNOSIS

Recommendation

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. The nitrite level is acceptable. 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		WC0874811	WC0769065	WC0735495
Sample Date	Client Info		29 Mar 2024	26 Sep 2023	13 Mar 2023
Machine Age	hrs	Client Info	0	11854	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.046	1.035	1.027
pH	Scale 0-14	ASTM D1287	7.50	7.30	7.13
Nitrites	ppm	AP-053:2009	488	336	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	34.0	26.7	21.3
Freezing Point	°F	ASTM D3321	-2	9	15
Total Dissolved Solids			266.5	199.5	151.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	24	22	43
Phosphorus	ppm	ASTM D6130	3	<1	0
Boron	ppm	ASTM D6130	0	11	0
Molybdenum	ppm	ASTM D6130	527	299	558

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		19	22	42

CARRIER SALTS

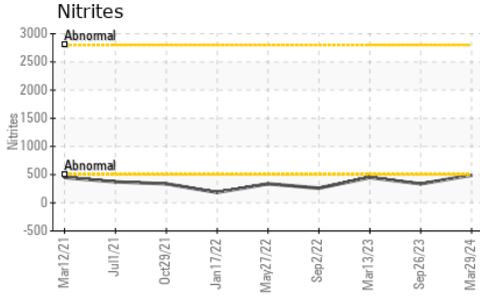
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		3440	2209	3593
Potassium	ppm	ASTM D6130		15	31	11

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		7	8	21
Magnesium	ppm	ASTM D6130		7	6	16

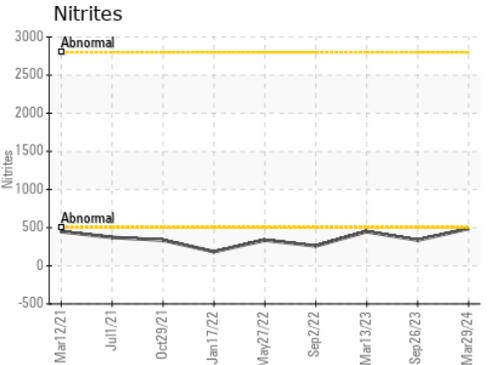
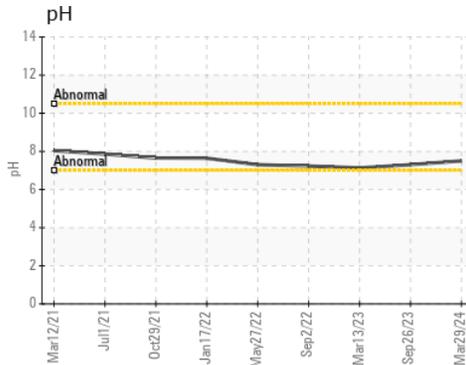
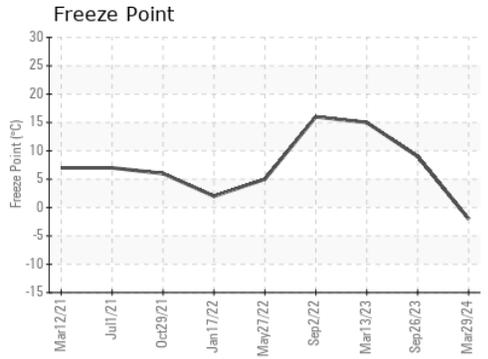
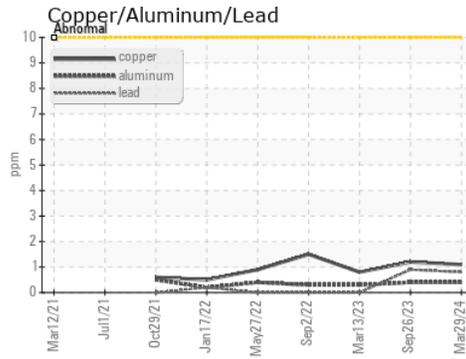
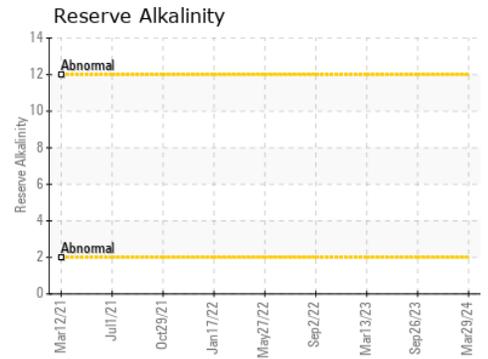
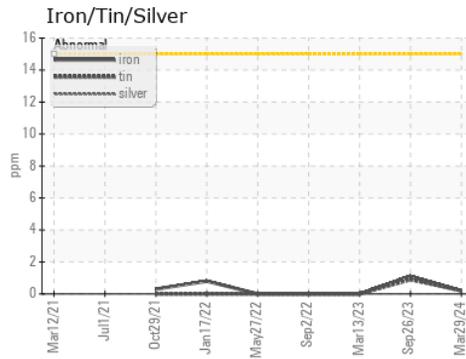


COOLANT REPORT



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. : WC0874811

Lab Number : 06140431

Unique Number : 10965239

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

Diagnosed : 10 Apr 2024 - Jonathan Hester

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)

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

cagumbert@marathonpetroleum.com

T: (606)585-3950

F: x: