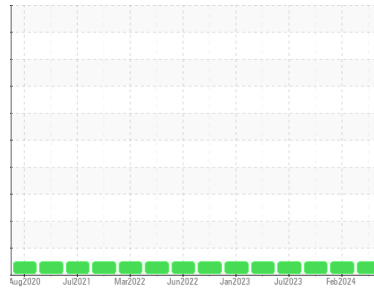




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Canton

Machine Id

[Canton] Coolant - Starboard Genset

Component

Coolant

Fluid

CATERPILLAR ELC (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. 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. 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		WC0805419	WC0805429	WC0805400
Sample Date	Client Info		22 Apr 2024	27 Feb 2024	14 Dec 2023
Machine Age	hrs	Client Info	0	0	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		1.067	1.063	1.063
pH	Scale 0-14	ASTM D1287	9.94	9.95	9.98
Nitrites	ppm	AP-053:2009	7028	936	5976
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	49.2	46.9	46.9
Freezing Point	°F	ASTM D3321	-33	-26	-26
Total Dissolved Solids			2087	163.5	1532
Carboxylate			fail	fail	pass

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	77	56	64
Phosphorus	ppm	ASTM D6130	0	2594	2020	2405
Boron	ppm	ASTM D6130	0	24	8	<1
Molybdenum	ppm	ASTM D6130	950	2289	1775	1802

CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	0	4	1
Aluminum	ppm	ASTM D6130	>10	0	0	<1
Copper	ppm	ASTM D6130	>10	2	2	3
Lead	ppm	ASTM D6130	>10	<1	<1	<1
Tin	ppm	ASTM D6130	>10	0	0	1
Zinc	ppm	ASTM D6130		0	0	2

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		78	61	76

CARRIER SALTS

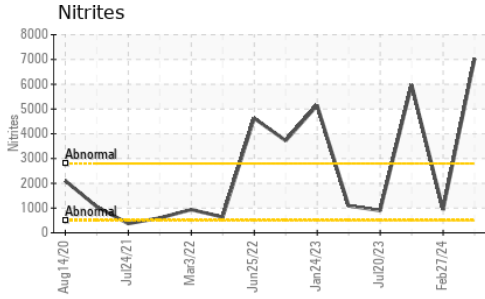
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		11359	8554	8362
Potassium	ppm	ASTM D6130		8860	7919	7403

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		0	<1	0
Magnesium	ppm	ASTM D6130		1	<1	<1

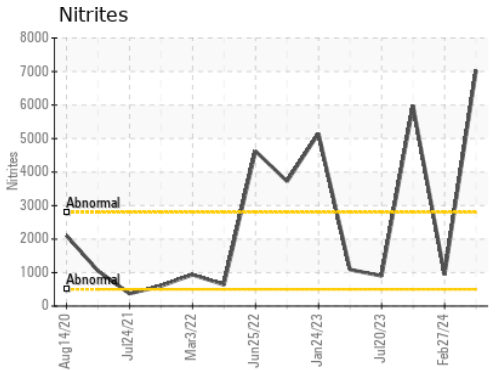
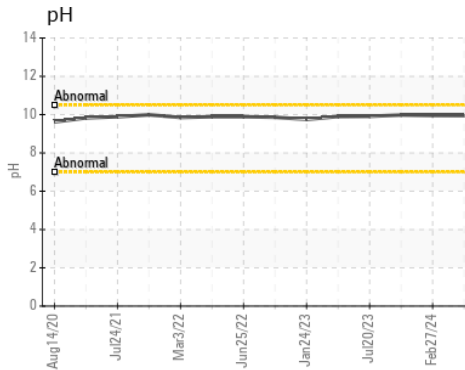
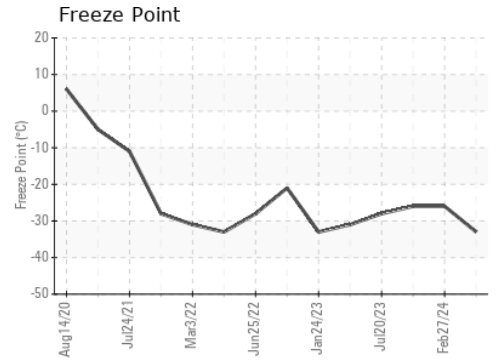
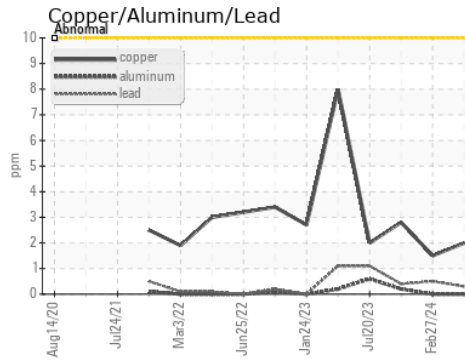
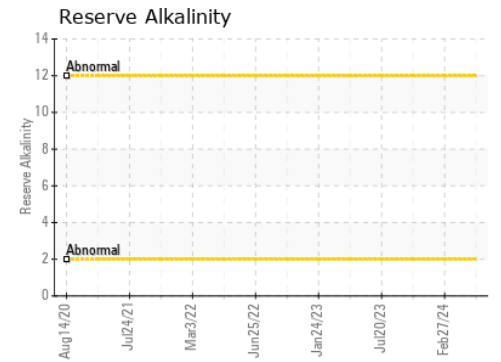
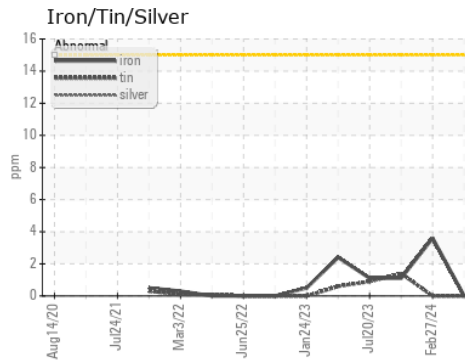


COOLANT REPORT



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. : WC0805419
Lab Number : 06181890
Unique Number : 11033216
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

Received : 16 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Jonathan Hester

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: M/V CANTON
 mvvcanton@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:
F: