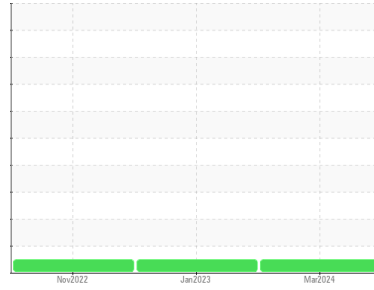




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Detroit

Machine Id

[Detroit] 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. (Customer Sample Comment: Chris Wray)

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		WC0804779	WC0731922	WC0731913
Sample Date	Client Info		25 Mar 2024	30 Jan 2023	07 Nov 2022
Machine Age	hrs	Client Info	9072	3244	3244
Oil Age	hrs	Client Info	0	3244	3244
Oil Changed		Client Info	N/A	N/A	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.043	1.014	1.027
pH	Scale 0-14	ASTM D1287	8.54	8.48	8.46
Nitrites	ppm	AP-053:2009	600	336	636
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	32.3	12.3	21.0
Freezing Point	°F	ASTM D3321	1	24	15
Total Dissolved Solids			226.0	117.5	171.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	3	39	12
Phosphorus	ppm	ASTM D6130	0	2	30	0
Boron	ppm	ASTM D6130	0	12	32	21
Molybdenum	ppm	ASTM D6130	950	428	110	208

CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	<1	2	6
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	<1	0

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		20	134	119

CARRIER SALTS

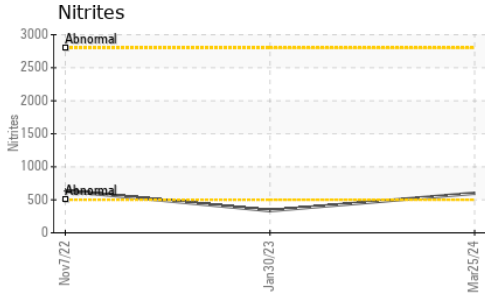
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		3077	2524	3675
Potassium	ppm	ASTM D6130		5	151	14

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		23	54	58
Magnesium	ppm	ASTM D6130		5	8	3

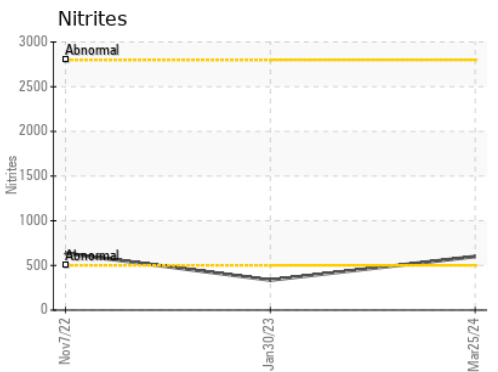
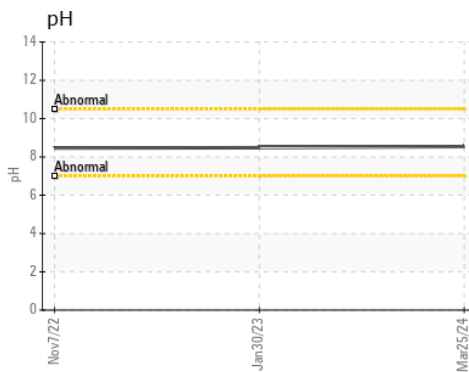
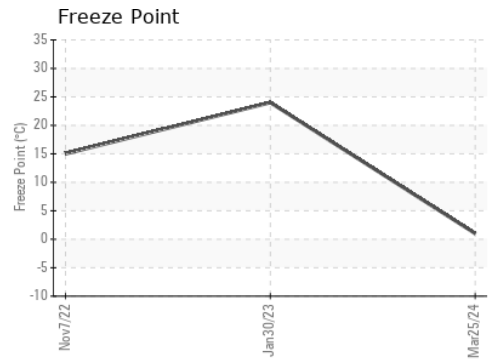
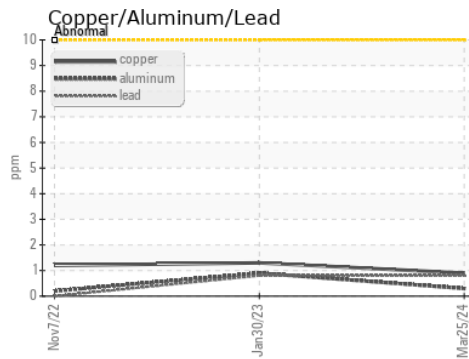
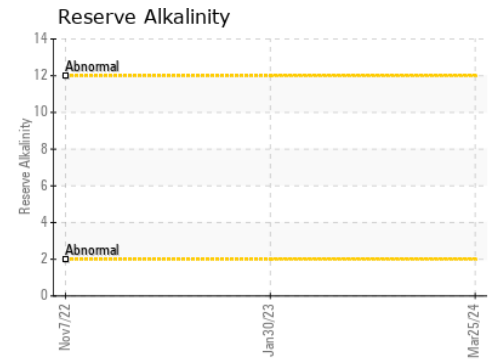
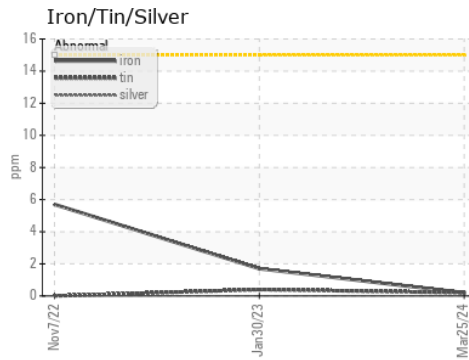


COOLANT REPORT



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

GRAPHS



Certificate L2367

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

Sample No. : WC0804779

Lab Number : 06140423

Unique Number : 10965231

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)

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US 41169

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