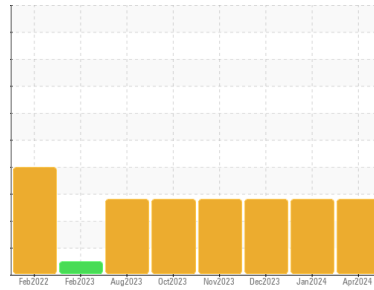




# COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area

Louisville

Machine Id

[Louisville] Coolant - Port Genset

Component

Coolant

Fluid

CATERPILLAR ELC (--- GAL)

## DIAGNOSIS

### Recommendation

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol.

### 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

The glycol level is lower than acceptable. The nitrite 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		WC0874764	WC0859850	WC0859793
Sample Date	Client Info		28 Apr 2024	25 Jan 2024	08 Dec 2023
Machine Age	hrs	Client Info	1850	2130	0
Oil Age	hrs	Client Info	0	2130	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.031	1.031	1.037
pH	Scale 0-14	ASTM D1287	7.37	8.33	8.17
Nitrites	ppm	AP-053:2009	712	336	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	▲ 23.6	▲ 23.9	▲ 28.0
Freezing Point	°F	ASTM D3321	12	12	7
Total Dissolved Solids			165.0	198.0	201.0
Carboxylate			fail	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	7	5
Phosphorus	ppm	ASTM D6130	0	0	0
Boron	ppm	ASTM D6130	0	28	32
Molybdenum	ppm	ASTM D6130	950	226	195

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		58	35

## CARRIER SALTS

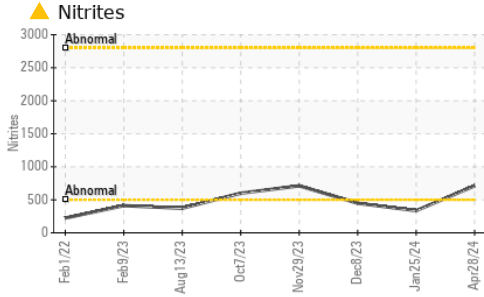
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		2695	2320
Potassium	ppm	ASTM D6130		13	16

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		18	15
Magnesium	ppm	ASTM D6130		10	8

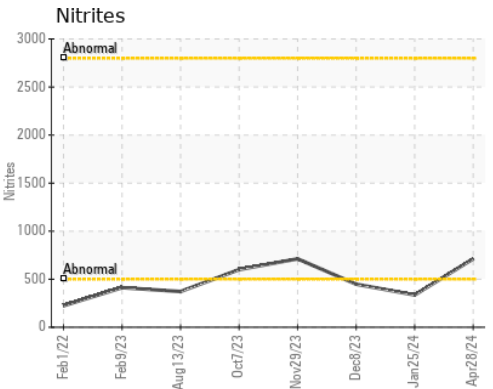
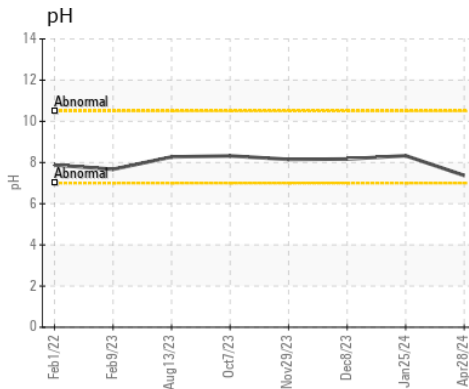
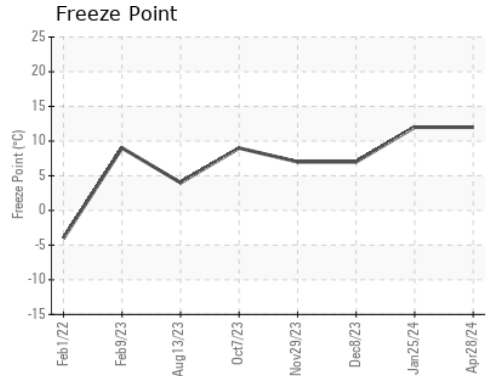
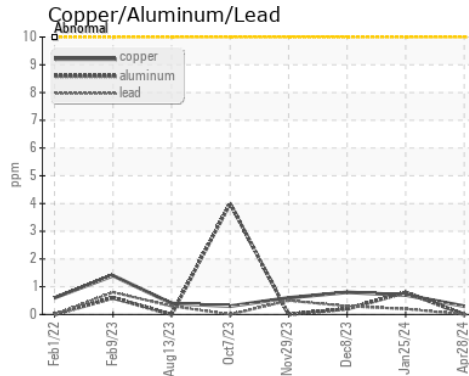
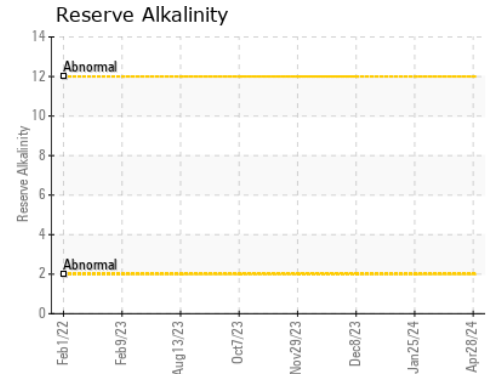
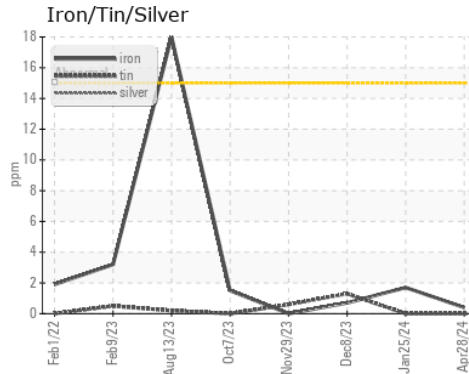


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	Red
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					no image
Bottom					no image

## GRAPHS



Certificate L2367

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

Sample No. : WC0874764

Lab Number : 06181912

Unique Number : 11033238

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 : 16 May 2024

Tested : 24 May 2024

Diagnosed : 24 May 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: