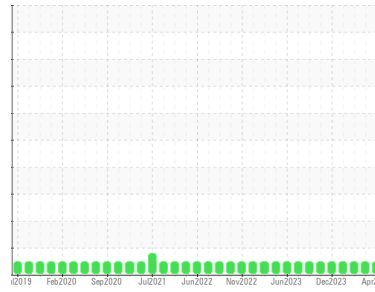




# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Kentucky**

Machine Id

**[Kentucky] Coolant - Port Main Engine (Jacket)**

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. 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>WC0845808</b>	WC0874823	WC0859930
Sample Date	Client Info		<b>25 Apr 2024</b>	16 Mar 2024	16 Feb 2024
Machine Age	hrs	Client Info	<b>14450</b>	0	12942
Oil Age	hrs	Client Info	<b>14450</b>	0	12942
Oil Changed		Client Info	<b>N/A</b>	N/A	N/A
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>1.067</b>	1.057	1.067
pH	Scale 0-14	ASTM D1287	<b>7.36</b>	8.43	7.74
Nitrites	ppm	AP-053:2009	<b>900</b>	748	300
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>49.7</b>	42.5	49.5
Freezing Point	°F	ASTM D3321	<b>-33</b>	-17	-33
Total Dissolved Solids			<b>308.0</b>	210.5	279.0
Carboxylate			<b>fail</b>	fail	fail

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	<b>14</b>	11
Phosphorus	ppm	ASTM D6130	0	<b>0</b>	0
Boron	ppm	ASTM D6130	0	<b>0</b>	22
Molybdenum	ppm	ASTM D6130	950	<b>680</b>	576

## CORROSION

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

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		<b>10</b>	3

## CARRIER SALTS

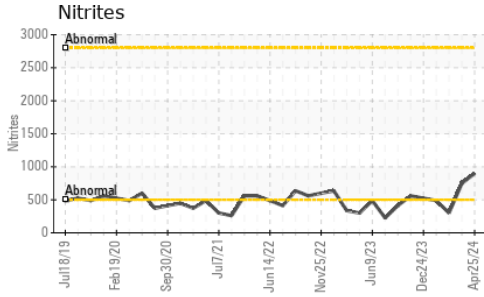
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		<b>4737</b>	3650
Potassium	ppm	ASTM D6130		<b>6</b>	27

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		<b>6</b>	27
Magnesium	ppm	ASTM D6130		<b>4</b>	2

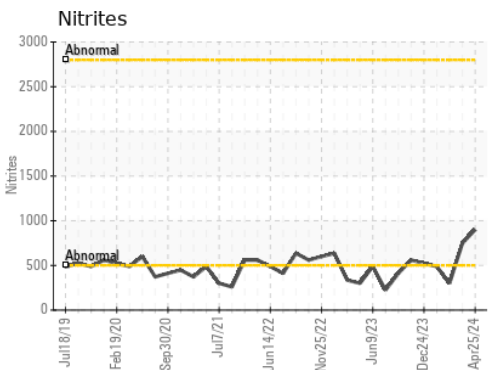
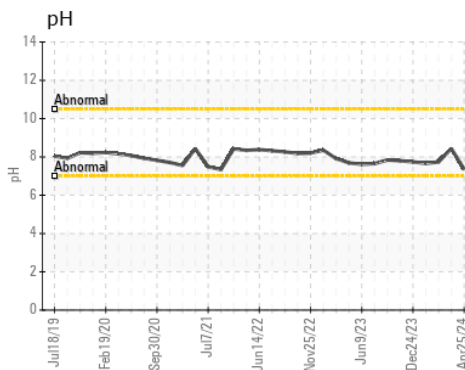
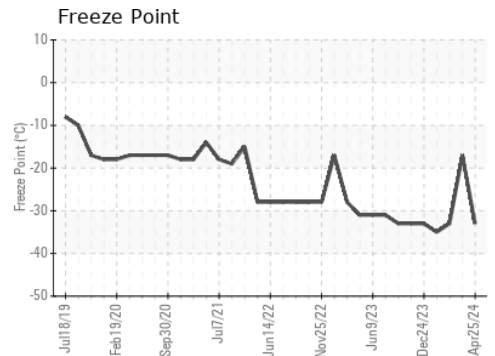
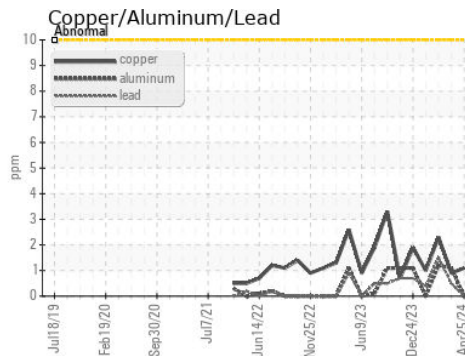
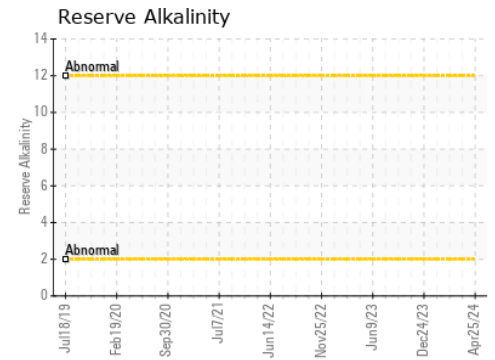
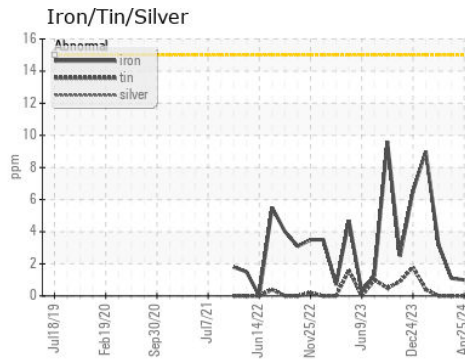


# COOLANT REPORT



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. : WC0845808

Lab Number : 06181911

Unique Number : 11033237

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

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US 41169

Contact: CORY GUMBERT

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T: (606)585-3950

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