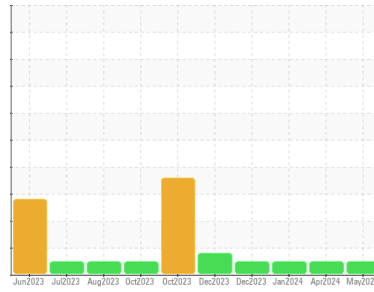




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Louisville

Machine Id

[Louisville] 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. 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		WC0898534	WC0874759	WC0859847
Sample Date	Client Info		29 May 2024	28 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info	1356	950	39417
Oil Age	hrs	Client Info	0	950	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		1.065	1.065	1.059
pH	Scale 0-14	ASTM D1287	7.93	7.99	8.16
Nitrites	ppm	AP-053:2009	676	900	560
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	47.8	48.5	43.3
Freezing Point	°F	ASTM D3321	-28	-31	-19
Total Dissolved Solids			326.0	347.5	279.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	12	14	3
Phosphorus	ppm	ASTM D6130	0	6	0	10
Boron	ppm	ASTM D6130	0	4	0	0
Molybdenum	ppm	ASTM D6130	950	646	755	589

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		13	12	10

CARRIER SALTS

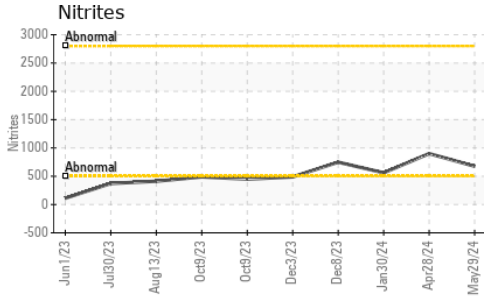
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		3963	4548	3555
Potassium	ppm	ASTM D6130		39	39	44

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		3	2	2
Magnesium	ppm	ASTM D6130		2	1	2

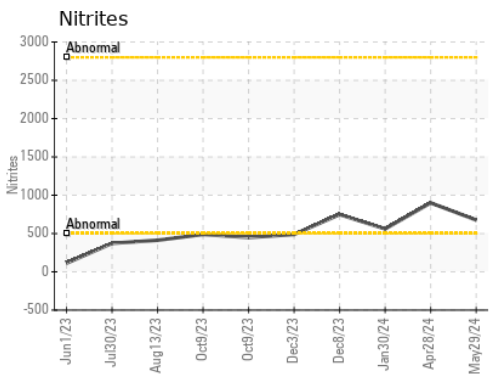
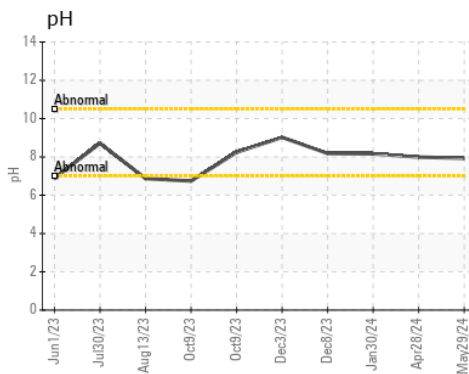
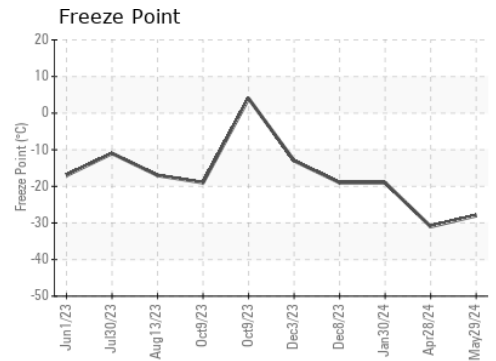
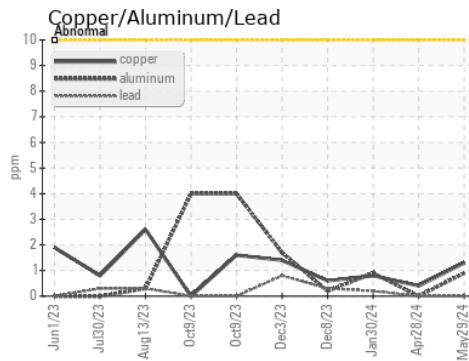
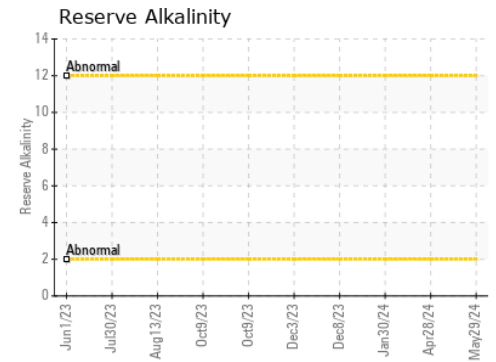
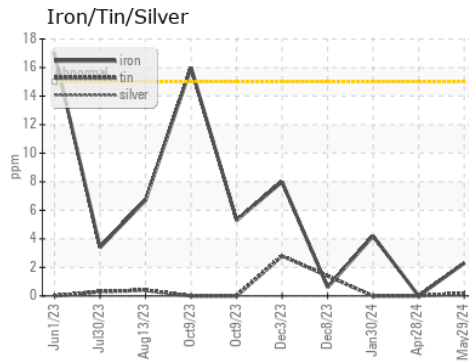


COOLANT REPORT



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. : WC0898534

Lab Number : 06201948

Unique Number : 11069409

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 : 06 Jun 2024

Tested : 11 Jun 2024

Diagnosed : 11 Jun 2024 - Jonathan Hester

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

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T: (606)585-3950

F: x: