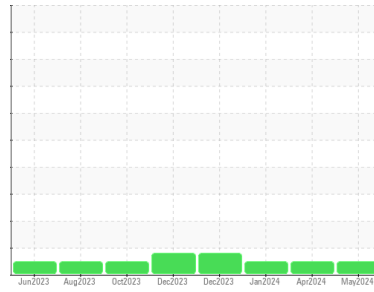




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Louisville

Machine Id

[Louisville] Coolant - Port Main Engine (Aftercooler)

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		WC0874751	WC0874766	WC0804840
Sample Date	Client Info		29 May 2024	28 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info	1355	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		1.061	1.061	1.052
pH	Scale 0-14	ASTM D1287	8.38	8.39	8.60
Nitrites	ppm	AP-053:2009	1124	824	488
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	45.2	45.2	38.4
Freezing Point	°F	ASTM D3321	-24	-24	-9
Total Dissolved Solids			279.5	273.0	243.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	3	2
Phosphorus	ppm	ASTM D6130	0	0	0
Boron	ppm	ASTM D6130	0	0	0
Molybdenum	ppm	ASTM D6130	950	682	667

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		11	9

CARRIER SALTS

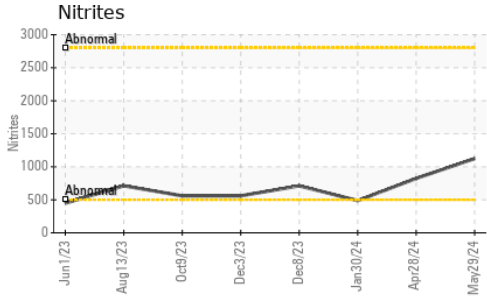
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		4180	4032
Potassium	ppm	ASTM D6130		17	14

SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		6	6
Magnesium	ppm	ASTM D6130		2	2

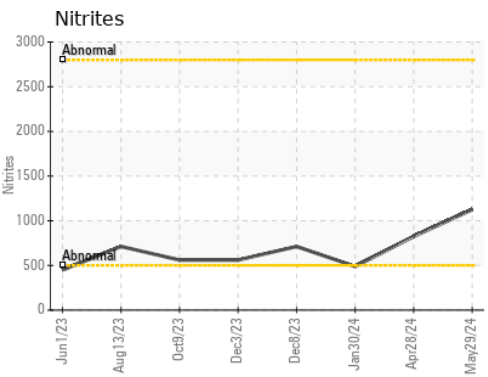
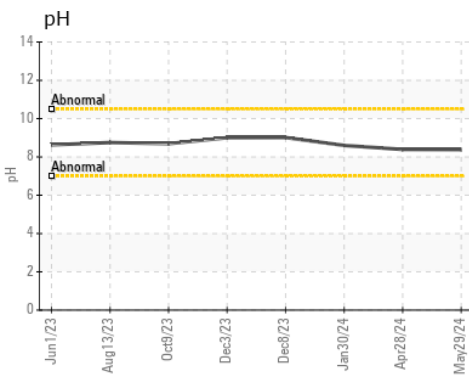
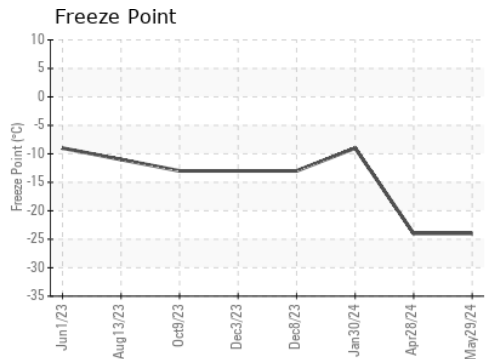
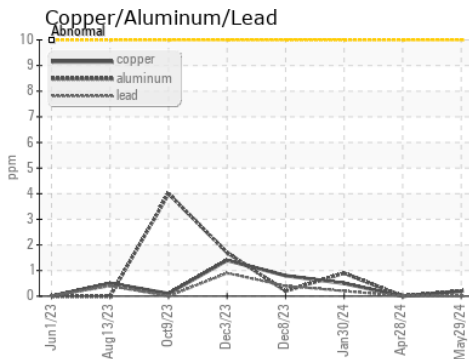
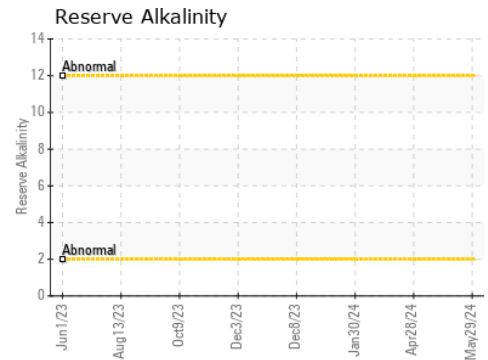
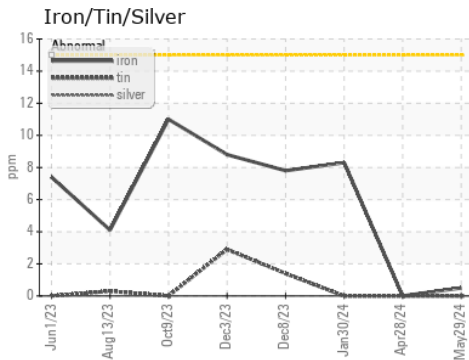


COOLANT REPORT



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. : WC0874751 **Received** : 10 Jun 2024
Lab Number : 06205299 **Tested** : 18 Jun 2024
Unique Number : 11072760 **Diagnosed** : 18 Jun 2024 - Doug Bogart
Test Package : COOL- (Additional Tests: GlycolType, ICP, KF)

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CORY GUMBERT
 cagumbert@marathonpetroleum.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: (606)585-3950

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: x: