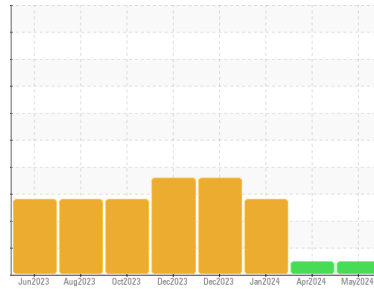




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Louisville

Machine Id

[Louisville] Coolant - Starboard 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		WC0898528	WC0874767	WC0804843
Sample Date	Client Info		29 May 2024	28 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info	1356	950	39416
Oil Age	hrs	Client Info	0	950	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.059	1.059	1.039
pH	Scale 0-14 ASTM D1287		8.42	8.40	8.60
Nitrites	ppm AP-053:2009		936	788	412
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		43.3	43.4	▲ 29.6
Freezing Point	°F ASTM D3321		-19	-19	5
Total Dissolved Solids			297.0	269.5	213.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	0	2	2	0
Phosphorus	ppm ASTM D6130	0	4	0	2
Boron	ppm ASTM D6130	0	0	0	0
Molybdenum	ppm ASTM D6130	950	575	653	337

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	2	0	2
Aluminum	ppm ASTM D6130	>10	<1	0	<1
Copper	ppm ASTM D6130	>10	<1	0	<1
Lead	ppm ASTM D6130	>10	0	<1	<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		12	9	13

CARRIER SALTS

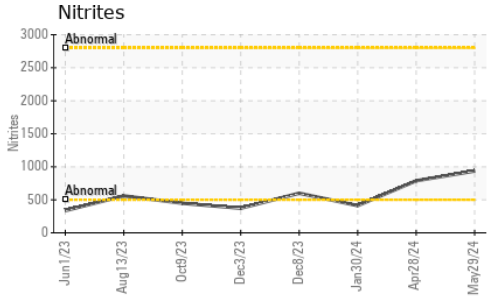
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		3629	4071	2424
Potassium	ppm ASTM D6130		13	12	17

SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		7	7	6
Magnesium	ppm ASTM D6130		3	3	<1

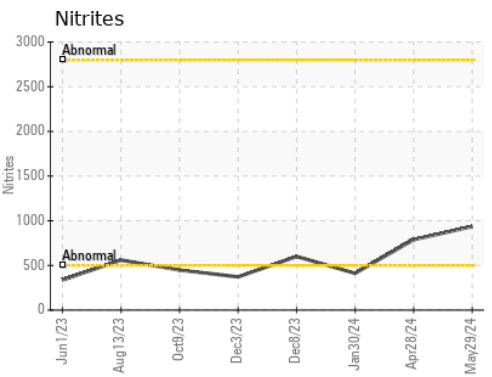
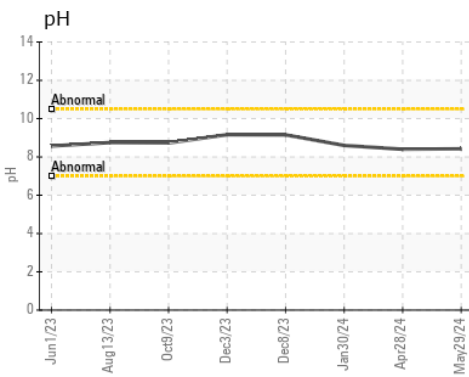
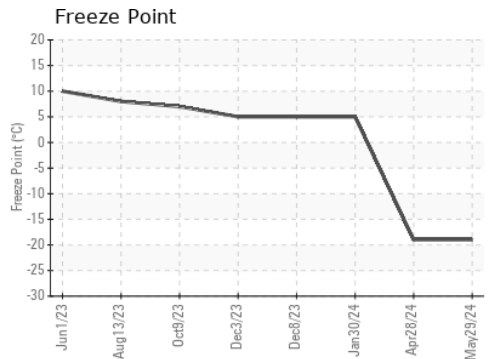
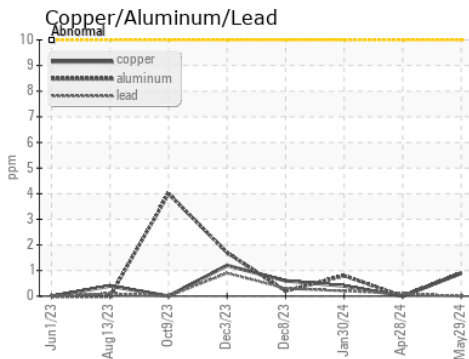
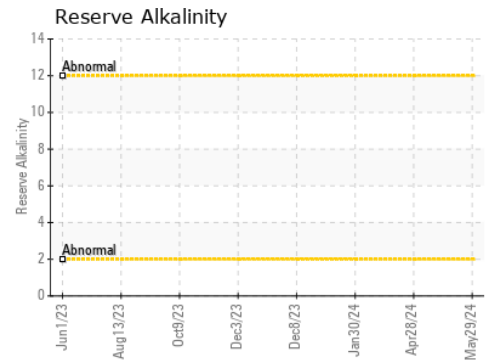
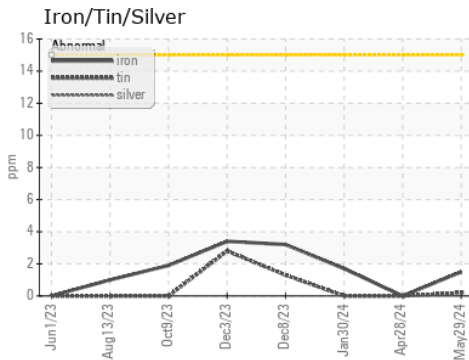


COOLANT REPORT



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. : WC0898528
Lab Number : 06201952
Unique Number : 11069413
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)
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
 cagumbert@marathonpetroleum.com

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)

T: (606)585-3950

F: x: