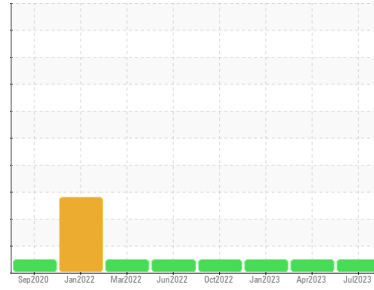




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Findlay

Machine Id

[Findlay] 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		WC0769096	WC0735491	WC0683277
Sample Date	Client Info		28 Jul 2023	25 Apr 2023	29 Jan 2023
Machine Age	hrs	Client Info	7914	6214	3801
Oil Age	hrs	Client Info	0	6214	3801
Oil Changed	Client Info		N/A	N/A	Not Changd
Sample Status			NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		1.062	1.062	1.062
pH	Scale 0-14	ASTM D1287	8.48	8.39	8.40
Nitrites	ppm	AP-053:2009	712	636	712
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	45.8	45.5	45.6
Freezing Point	°F	ASTM D3321	-24	-24	-24
Total Dissolved Solids			292.5	326.0	302.5
Carboxylate			fail	pass	pass

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	10	6	20
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	5	0	14
Molybdenum	ppm	ASTM D6130	950	964	1095	963

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		15	6	16

CARRIER SALTS

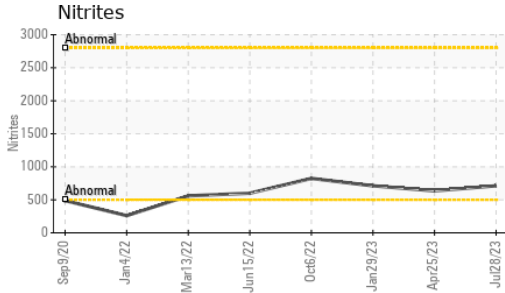
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		5657	5870	5483
Potassium	ppm	ASTM D6130		0	0	27

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		1	2	1
Magnesium	ppm	ASTM D6130		4	5	4

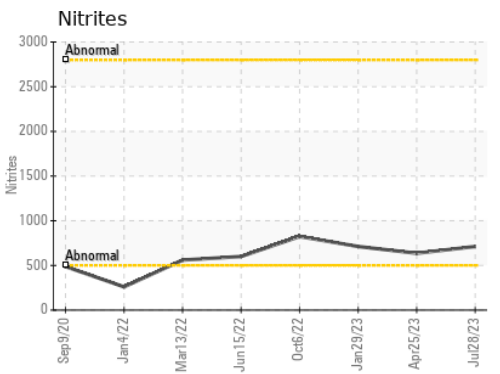
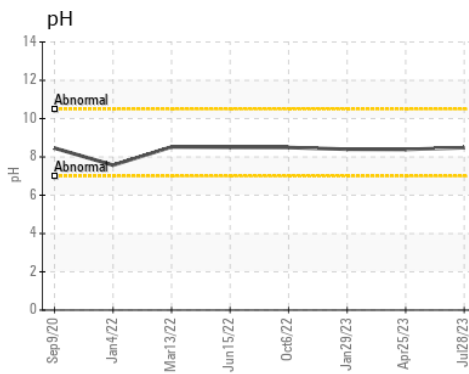
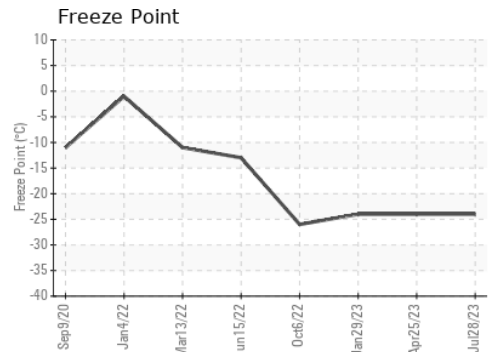
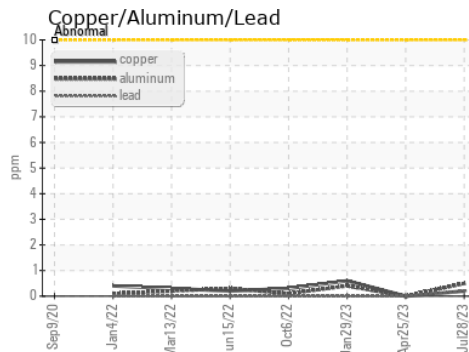
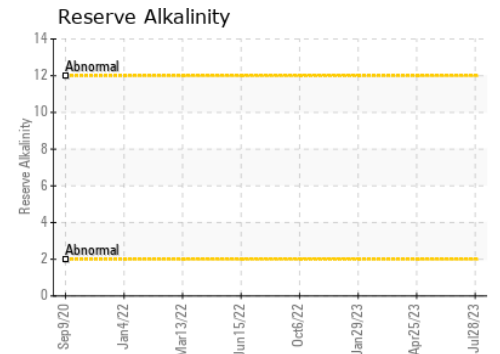
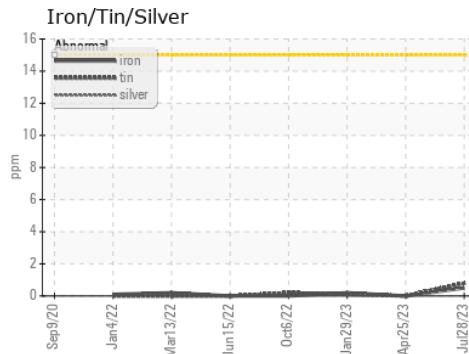


COOLANT REPORT



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. : WC0769096 Received : 10 Aug 2023
 Lab Number : 05921901 Diagnosed : 15 Aug 2023
 Unique Number : 10601848 Diagnostician : Doug Bogart
 Test Package : COOL- (Additional Tests: COOL, ICP)

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: SHAWN MCCLASKEY
 stmccclaskey@marathonpetroleum.com
 T: (606)739-2416
 F: x:

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)