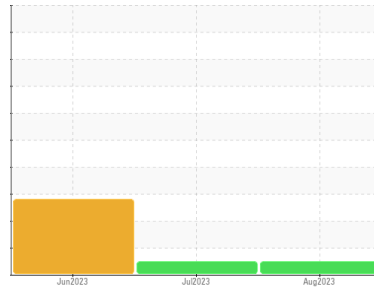




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Louisville

Machine Id

[Louisville] Coolant - Port Main Engine (Jacket)

Component

Coolant

Fluid

CATERPILLAR ELC (--- GAL)

DIAGNOSIS

Recommendation

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

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		WC0769107	WC0769307	WC0769101
Sample Date	Client Info		13 Aug 2023	30 Jul 2023	01 Jun 2023
Machine Age	hrs	Client Info	37394	37246	36649
Oil Age	hrs	Client Info	0	37246	36649
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			NORMAL	NORMAL	ABNORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		1.058	1.053	1.057
pH	Scale 0-14 ASTM D1287		6.87	8.71	▲ 6.88
Nitrites	ppm AP-053:2009		412	372	112
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		42.7	39.1	42.5
Freezing Point	°F ASTM D3321		-17	-11	-17
Total Dissolved Solids			296.5	266.5	296.5
Carboxylate			pass	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	0	15	15	22
Phosphorus	ppm ASTM D6130	0	0	0	0
Boron	ppm ASTM D6130	0	5	4	0
Molybdenum	ppm ASTM D6130	950	883	795	1182

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	7	3	▲ 17
Aluminum	ppm ASTM D6130	>10	<1	0	0
Copper	ppm ASTM D6130	>10	3	<1	2
Lead	ppm ASTM D6130	>10	<1	<1	0
Tin	ppm ASTM D6130	>10	<1	<1	0
Zinc	ppm ASTM D6130		<1	0	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		31	22	0

CARRIER SALTS

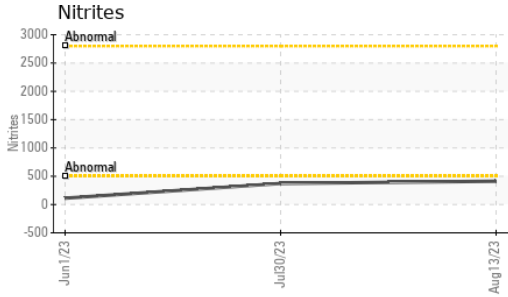
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		5155	4519	5498
Potassium	ppm ASTM D6130		3	11	0


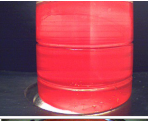
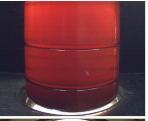



SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		7	10	9
Magnesium	ppm ASTM D6130		9	1	10

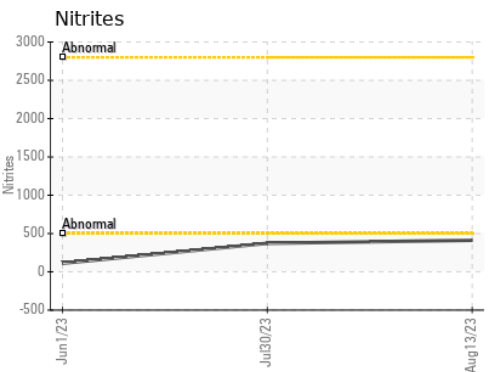
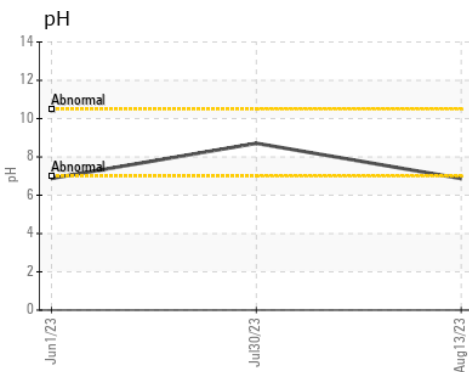
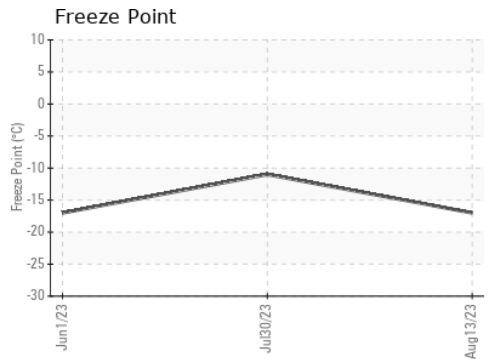
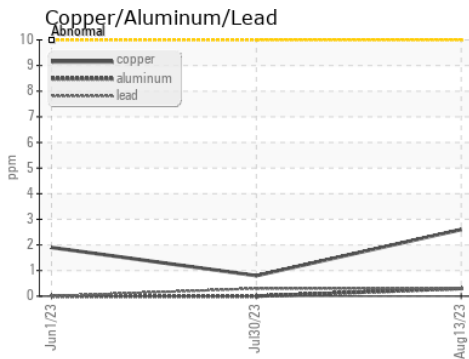
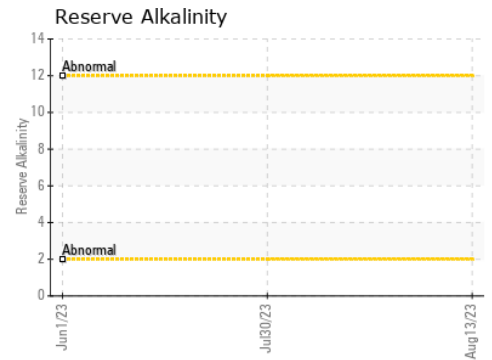
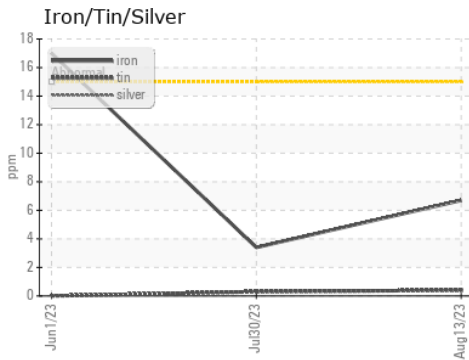


COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	LtRed	Red
Coolant Appearance	*Visual	Clear	normal	normal	▲ sediment
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0769107 **Received** : 23 Aug 2023
Lab Number : 05932517 **Diagnosed** : 26 Aug 2023
Unique Number : 10617788 **Diagnostician** : Doug Bogart
Test Package : COOL- (Additional Tests: COOL, ICP)

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 CATLETTSBURG, KY
 US 41169
 Contact: CORY GUMBERT
 cagumbert@marathonpetroleum.com
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 F:

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)