

## **COOLANT REPORT**

**NORMAL** 



Louisville

# [Louisville] Coolant - Starboard Main Engine (Jacket)

Coolant

**CATERPILLAR ELC (--- GAL)** 

#### Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

#### Corrosion

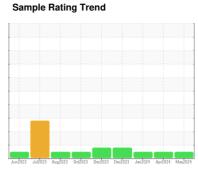
All metal levels are normal indicating no corrosion in the cooling system.

### Contaminants

There is no indication of any contamination in the coolant.

### **Coolant Condition**

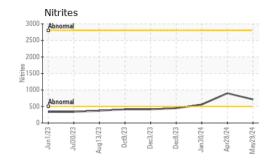
Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.

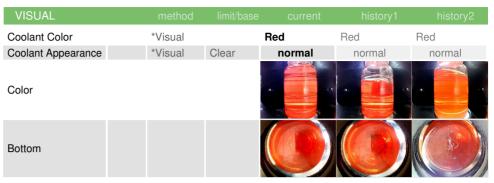


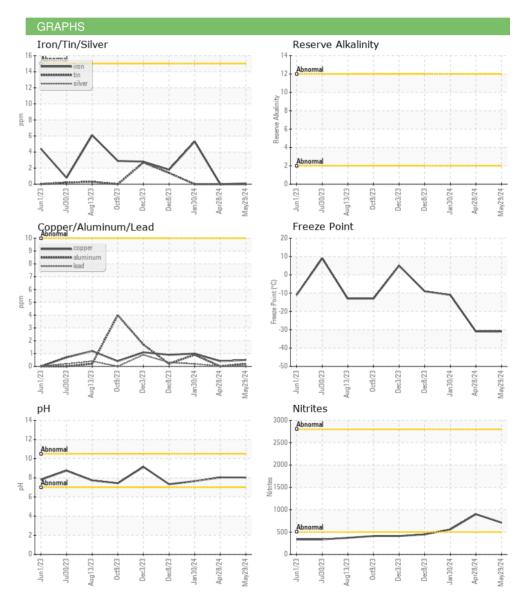
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0898537	WC0874758	WC0804841
Sample Date		Client Info		29 May 2024	28 Apr 2024	30 Jan 2024
Machine Age	hrs	Client Info		1355	950	39416
Oil Age	hrs	Client Info		0	950	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Glycol Type		FT-IR				
Specific Gravity		*ASTM D1298		1.066	1.065	1.054
рН	Scale 0-14	ASTM D1287		8.03	8.04	7.65
Nitrites	ppm	AP-053:2009		712	900	560
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		48.8	48.7	39.5
Freezing Point	°F	ASTM D3321		-31	-31	-11
Total Dissolved Solids				293.5	307.0	258.0
Carboxylate				fail	fail	fail
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	9	9	4
Phosphorus	ppm	ASTM D6130	0	0	0	4
Boron	ppm	ASTM D6130	0	0	0	0
Molybdenum	ppm	ASTM D6130	950	746	791	516
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	<1	0	5
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	0	0	0
Zinc	ppm	ASTM D6130		0	0	0
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		10	8	13
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		4402	4696	3239
Potassium	ppm	ASTM D6130		25	25	26
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		2	2	2
Magnesium	ppm	ASTM D6130		1	<1	2
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## **COOLANT REPORT**











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

: WC0898537 Lab Number : 06205301 Unique Number : 11072762

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

Received **Tested** Diagnosed

: 10 Jun 2024 : 18 Jun 2024

: 18 Jun 2024 - Doug Bogart Test Package : COOL- ( Additional Tests: GlycolType, ICP, KF )

101 12TH ST CATLETTSBURG, KY US 41169

MARATHON PETROLEUM CO.

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com

\* - 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)

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