

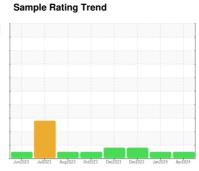
COOLANT REPORT

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.

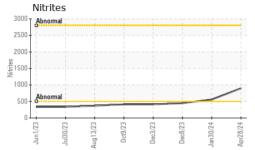
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874758	WC0804841	WC0859800
Sample Date		Client Info		28 Apr 2024	30 Jan 2024	08 Dec 2023
Machine Age	hrs	Client Info		950	39416	0
Oil Age	hrs	Client Info		950	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Glycol Type		FT-IR				
Specific Gravity		*ASTM D1298		1.065	1.054	1.052
рН	Scale 0-14	ASTM D1287		8.04	7.65	7.33
Nitrites	ppm	AP-053:2009		900	560	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		48.7	39.5	38.6
Freezing Point	°F	ASTM D3321		-31	-11	-9
Total Dissolved Solids				307.0	258.0	236.0
Carboxylate				fail	fail	fail
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	9	4	6
Phosphorus	ppm	ASTM D6130	0	0	4	2
Boron	ppm	ASTM D6130	0	0	0	0
Molybdenum	ppm	ASTM D6130	950	791	516	511
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0	5	2
Aluminum	ppm	ASTM D6130	>10	0	<1	<1
Copper	ppm	ASTM D6130	>10	<1	1	<1
Lead	ppm	ASTM D6130	>10	0	<1	<1
Tin	ppm	ASTM D6130	>10	0	0	1
Zinc	ppm	ASTM D6130		0	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		8	13	13
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		4696	3239	3154
Potassium	ppm	ASTM D6130		25	26	7
SCALE POTENTI	AL _	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		2	2	4

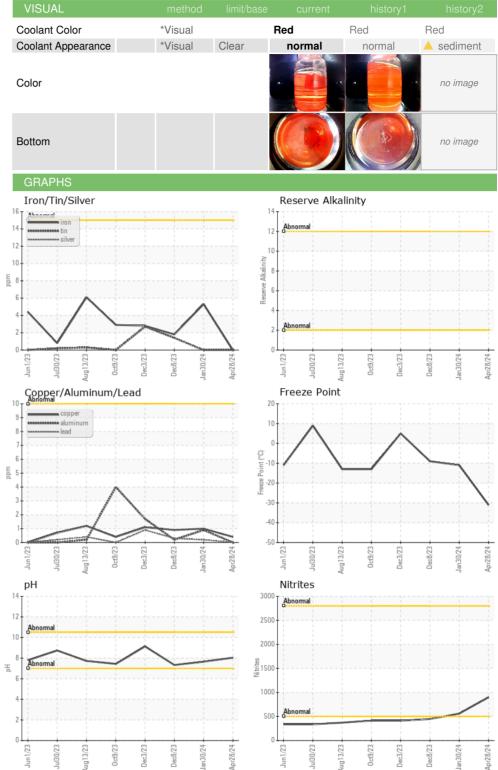
Magnesium

ppm ASTM D6130



COOLANT REPORT









Laboratory Sample No.

Lab Number : 06181910 Unique Number : 11033236

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0874758 Received : 16 May 2024

Tested

: 24 May 2024 Diagnosed : 24 May 2024 - Jonathan Hester MARATHON PETROLEUM CO. 101 12TH ST CATLETTSBURG, KY US 41169

Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF) Certificate 12367 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.

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com T: (606)585-3950

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

F: x: