

COOLANT REPORT

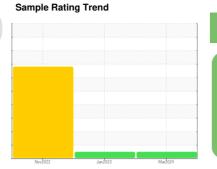
Area **Detroit**

[Detroit] Coolant - Port Main Engine (Jacket)

Coolant

Coolaii

CATERPILLAR ELC (--- GAL)





DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service. (Customer Sample Comment: Chris Wray)

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.

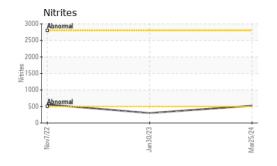
		No	v2022	Jan 2023 Mar 20	124	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804782	WC0731924	WC0731912
Sample Date		Client Info		25 Mar 2024	30 Jan 2023	07 Nov 2022
Machine Age	hrs	Client Info		19472	0	9544
Oil Age	hrs	Client Info		19472	0	9544
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				NORMAL	NORMAL	SEVERE
PHYSICAL TEST R	RESULTS	method	limit/base	current	history1	history2
Glycol Type		FT-IR				
Specific Gravity		*ASTM D1298		1.048	1.043	1.052
рН	Scale 0-14	ASTM D1287		8.60	9.13	8.56
Nitrites	ppm	AP-053:2009		524	300	560
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		35.1	31.9	38.5
Freezing Point	°F	ASTM D3321		-3	3	-9
Total Dissolved Solids				266.5	208.5	286.5
Carboxylate				fail	fail	fail
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	16	58	33
Phosphorus	ppm	ASTM D6130	0	3	30	0
Boron	ppm	ASTM D6130	0	7	23	29
Molybdenum	ppm	ASTM D6130	950	548	596	1061
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	10	13	▲ 51
Aluminum	ppm	ASTM D6130	>10	<1	1	0
Copper	ppm	ASTM D6130	>10	1	1	2
Lead	ppm	ASTM D6130	>10	<1	1	<1
Tin	ppm	ASTM D6130	>10	<1	1	0
Zinc	ppm	ASTM D6130		0	1	<1
CONTAMINANTS	;	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		16	57	22
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		3467	5389	5213
Potassium	ppm	ASTM D6130		246	359	457
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		25	10	46
		AOTH DOLOG		-	0	-

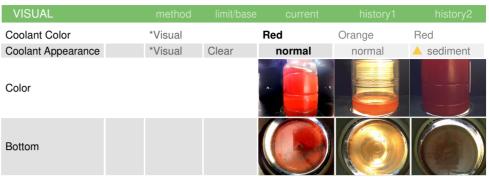
Magnesium

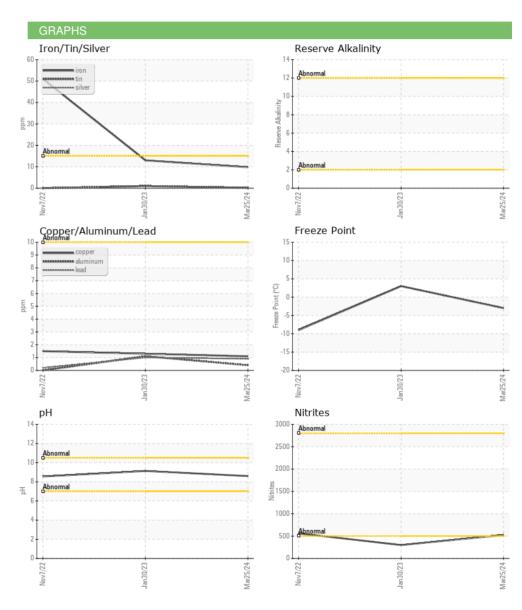
ppm ASTM D6130



COOLANT REPORT











Certificate 12367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0804782 Lab Number : 06140424

Unique Number : 10965232

Received **Tested** Diagnosed

: 05 Apr 2024 : 10 Apr 2024 : 10 Apr 2024 - Jonathan Hester MARATHON PETROLEUM CO. 101 12TH ST CATLETTSBURG, KY US 41169

Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF) To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

 st - 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)

F: x:

Report Id: MARCAT [WUSCAR] 06140424 (Generated: 04/10/2024 11:57:20) Rev: 1