

### **COOLANT REPORT**

# Martinsville [Martinsville] Coolant - Port Main Engine (Jacket) Component Coolant

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

#### DIAGNOSIS

#### Recommendation

We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol.

#### Corrosion

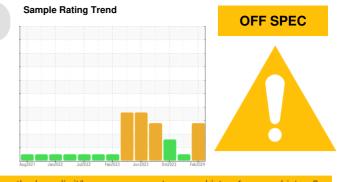
All metal levels are normal indicating no corrosion in the cooling system.

#### Contaminants

There is no indication of any contamination in the coolant.

#### Coolant Condition

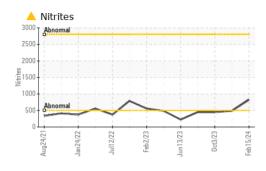
Carboxylate test failed. The glycol level is low. The pH level of this fluid is within the acceptable limits.

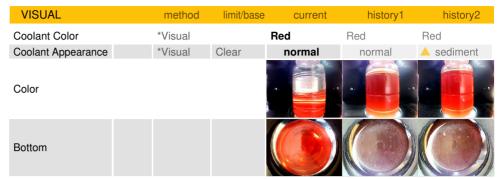


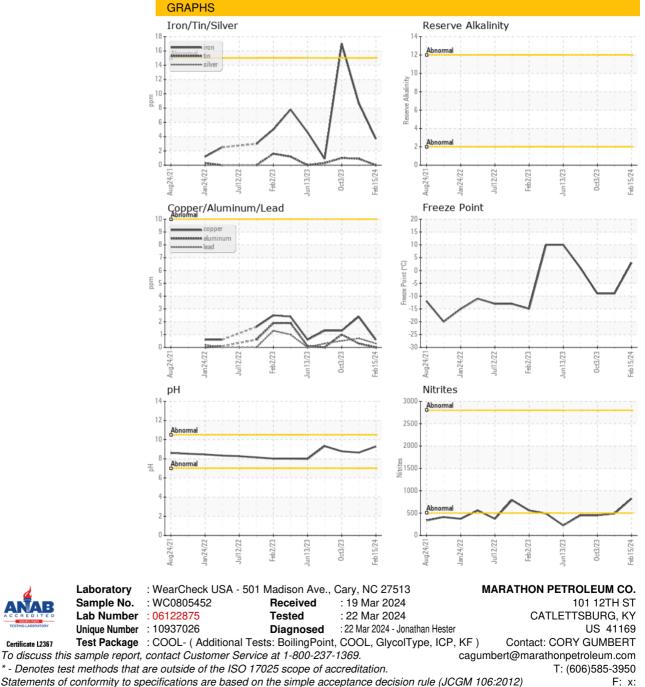
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805452	WC0845973	WC0769056
Sample Date		Client Info		15 Feb 2024	27 Nov 2023	03 Oct 2023
Machine Age	hrs	Client Info		18719	18719	17533
Oil Age	hrs	Client Info		16703	18719	201
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				MARGINAL	NORMAL	ABNORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Glycol Type		FT-IR				
Specific Gravity		*ASTM D1298		1.043	1.052	1.052
pН	Scale 0-14	ASTM D1287		9.28	8.65	8.78
Nitrites	ppm	AP-053:2009		824	488	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		<u> </u>	38.3	38.1
Freezing Point	°F	ASTM D3321		3	-9	-9
Total Dissolved Solids				253.5	241.5	269.0
Carboxylate				fail	fail	fail
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	35	10	5
Phosphorus	ppm	ASTM D6130	0	52	5	1
Boron	ppm	ASTM D6130	0	72	7	0
Molybdenum	ppm	ASTM D6130	950	399	424	560
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	4	9	<b>1</b> 7
Aluminum	ppm	ASTM D6130	>10	0	<1	1
Copper	ppm	ASTM D6130	>10	<1	2	1
Lead	ppm	ASTM D6130	>10	<1	<1	<1
Tin	ppm	ASTM D6130	>10	0	<1	1
Zinc	ppm	ASTM D6130		0	1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		13	23	13
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		2935	2963	3595
Potassium	ppm	ASTM D6130		493	220	1
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		8	11	3
Magnesium	ppm	ASTM D6130		2	5	1
0						

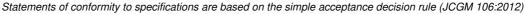


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Certificate L2367