

COOLANT REPORT

West Virginia [West Virginia] 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. (Customer Sample Comment: Thurman Richardson)

Corrosion

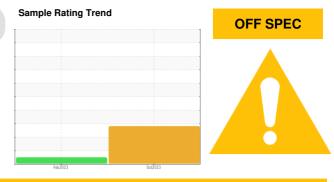
All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

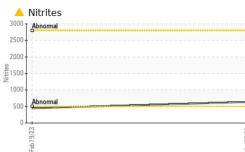
The glycol level is lower than acceptable. The pH level of this fluid is within the acceptable limits.

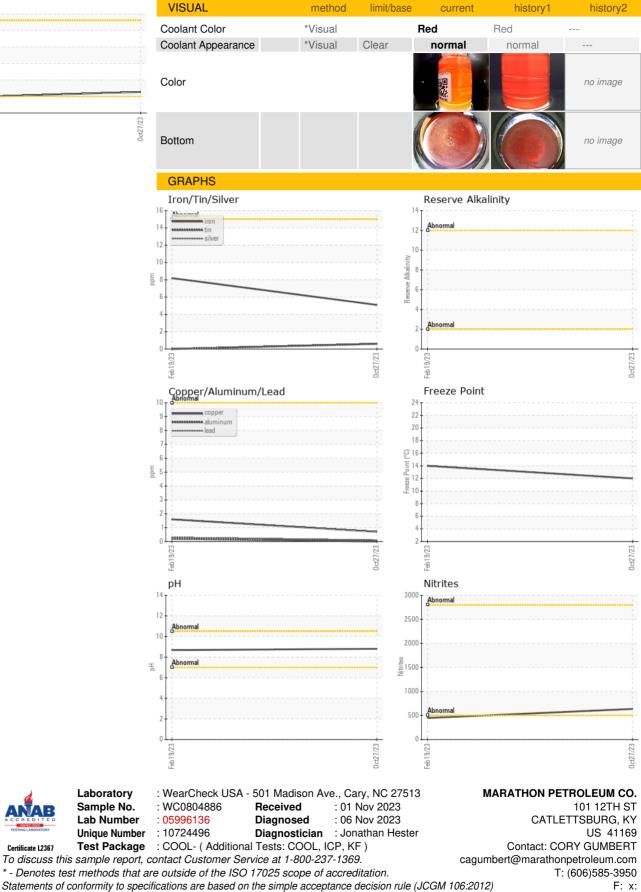


SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804886	WC0735813	
Sample Date		Client Info		27 Oct 2023	19 Feb 2023	
Machine Age	hrs	Client Info		26183	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				ABNORMAL	NORMAL	
PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.030	1.028	
рН	Scale 0-14	ASTM D1287		8.81	8.68	
Nitrites	ppm	AP-053:2009		636	448	
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		<u> </u>	22.0	
Freezing Point	°F	ASTM D3321		12	14	
Total Dissolved Solids				129.5	149.0	
Carboxylate				fail	fail	
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	2	6	
Phosphorus	ppm	ASTM D6130	0	<1	0	
Boron	ppm	ASTM D6130	0	0	7	
Molybdenum	ppm	ASTM D6130	950	156	318	
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	5	8	
Aluminum	ppm	ASTM D6130	>10	0	<1	
Copper	ppm	ASTM D6130	>10	<1	2	
Lead	ppm	ASTM D6130	>10	<1	<1	
Tin	ppm	ASTM D6130	>10	<1	0	
Zinc	ppm	ASTM D6130		0	0	
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		44	102	
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		1480	2640	
Potassium	ppm	ASTM D6130		855	1646	
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		10	24	
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Magnesium	ppm	ASTM D6130		6	16	



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Certificate L2367

Submitted By: M/V WEST VIRGINIA

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