

COOLANT REPORT

Sample Rating Trend

NORMAL

Area **Nashville** [Nashville] Coolant - Starboard Main Engine Component 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.

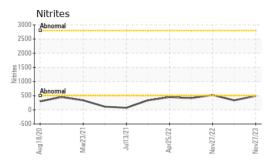
Coolant Condition

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

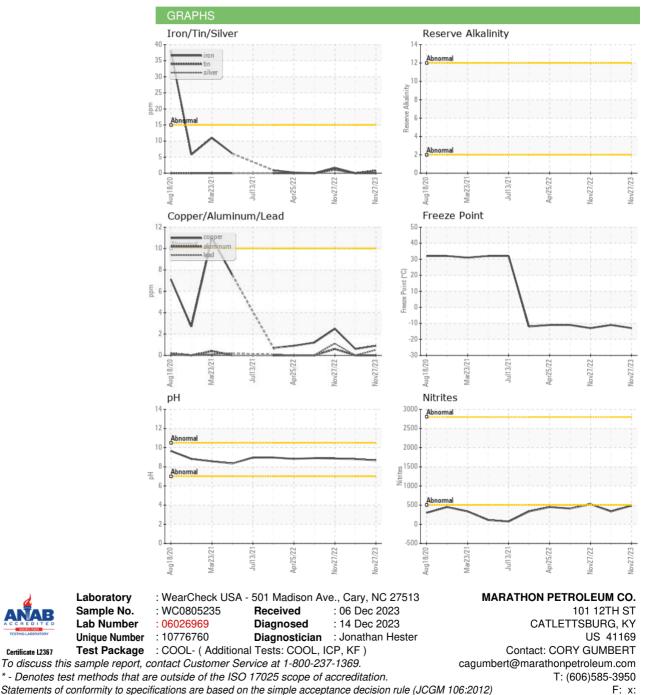
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805235	WC0683262	WC0683344
Sample Date		Client Info		27 Nov 2023	13 Jun 2023	27 Nov 2022
Machine Age	hrs	Client Info		0	0	50768
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.054	1.054	1.054
рН	Scale 0-14	ASTM D1287		8.68	8.81	8.87
Nitrites	ppm	AP-053:2009		488	336	524
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		40.0	39.9	40.0
Freezing Point	°F	ASTM D3321		-13	-11	-13
Total Dissolved Solids				268.5	264.0	265.5
Carboxylate				fail	fail	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	426	4	26
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	22	33	72
Molybdenum	ppm	ASTM D6130	950	350	787	817
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0	0	2
Aluminum	ppm	ASTM D6130	>10	0	0	<1
Copper	ppm	ASTM D6130	>10	<1	<1	2
Lead	ppm	ASTM D6130	>10	<1	0	1
Tin	ppm	ASTM D6130	>10	<1	0	1
Zinc	ppm	ASTM D6130		0	0	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		12	0	46
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		2933	5081	5726
Potassium	ppm	ASTM D6130		6	0	19
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		7	18	14
Magnesium	ppm	ASTM D6130		3	3	4



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