

# **COOLANT REPORT**

SAMPLE INCODMATION

# Texas City [Texas City] Coolant - Starboard Main Engine Component Coolant

**CONVENTIONAL COOLANT (--- GAL)** 

## DIAGNOSIS

### Recommendation

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

#### Corrosion

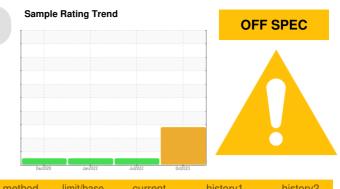
All metal levels are normal indicating no corrosion in the cooling system.

### Contaminants

There is no indication of any contamination in the coolant.

#### Coolant Condition

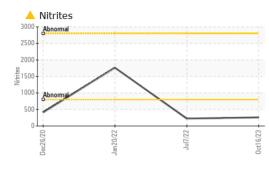
Carboxylate test failed. The glycol level is lower than acceptable. The pH level of this fluid is within the acceptable limits.



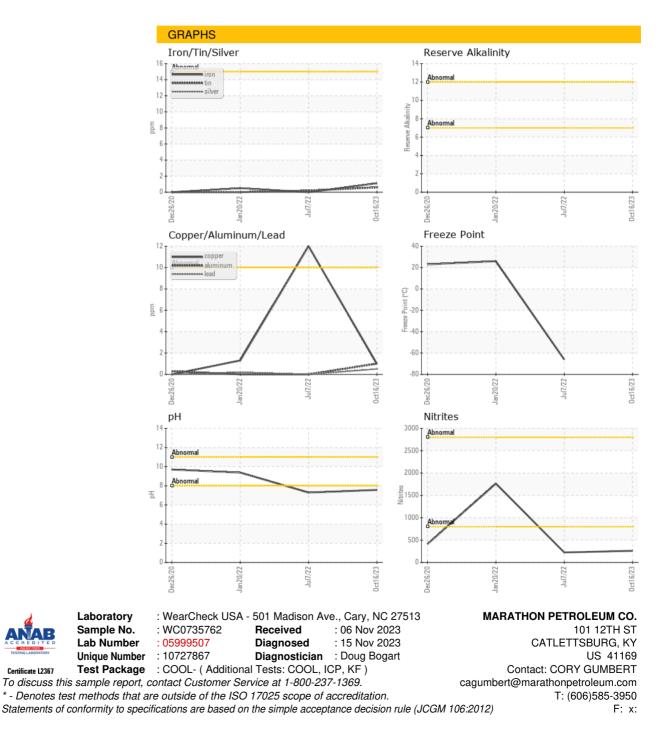
SAMPLE INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0735762	WC0659704	WC0621598
Sample Date		Client Info		16 Oct 2023	07 Jul 2022	20 Jan 2022
Machine Age	hrs	Client Info		10855	6296	10855
Oil Age	hrs	Client Info		10855	6296	0
Oil Changed		Client Info		N/A	Not Changd	N/A
Sample Status				ABNORMAL	NORMAL	NORMAL
PHYSICAL TEST R	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.000	1.088	
рН	Scale 0-14	ASTM D1287		7.57	7.29	9.37
Nitrites	ppm	AP-053:2009		260	224	1764
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		<b>A</b> 2.1	68.6	8.7
Freezing Point	°F	ASTM D3321			-66	26
Total Dissolved Solids				80.0	304.0	321.5
Carboxylate				fail	fail	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		89	106	204
Phosphorus	ppm	ASTM D6130		24	332	275
Boron	ppm	ASTM D6130		15	781	201
Molybdenum	ppm	ASTM D6130		45	17	170
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	1	0	<1
Aluminum	ppm	ASTM D6130	>10	1	0	0
Copper	ppm	ASTM D6130	>10	1	12	1
Lead	ppm	ASTM D6130	>10	<1	0	<1
Tin	ppm	ASTM D6130	>10	<1	<1	0
Zinc	ppm	ASTM D6130		0	0	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		71	31	138
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		691	1351	1901
Potassium	ppm	ASTM D6130		180	1206	638
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		2	0	1
Calcium Magnesium	ppm ppm	ASTM D6130 ASTM D6130		2 1	0 <1	1 <1

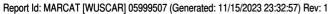


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VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Pink	Yllow	Yllow
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color					
Bottom					





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Submitted By: M/V TEXAS CITY

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