

## **COOLANT REPORT**

### Area Tri State [Tri State] Coolant - Starboard Main Eng **Starboard Coolant** Fluic **EXTENDED LIFE 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. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

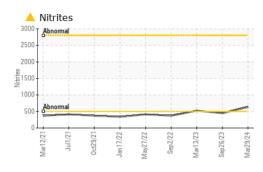
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	Mar2021 Ju			23 Mar2024	
IATION		limit/base	current	history1	history2
	Client Info		WC0874866	WC0805316	WC0735480
					13 Mar 2023
			-		0
hrs			-	•	0
	Client Info				N/A
			ABNORMAL	NORMAL	NORMAL
ESULTS	method	limit/base	current	history1	history2
	FT-IR				
	*ASTM D1298		1.014	1.032	1.032
Scale 0-14	ASTM D1287		7.95	8.08	6.92
ppm	AP-053:2009		636	448	524
Scale 0-20	*ASTM D1121				
%	ASTM D3321		<u> </u>	24.8	24.9
°F	ASTM D3321		24	11	11
			110.0	179.0	173.5
			fail	fail	fail
BITORS	method	limit/base	current	history1	history2
ppm	ASTM D6130		5	15	40
ppm	ASTM D6130		1	<1	0
ppm	ASTM D6130		0	12	0
ppm	ASTM D6130		195	244	566
	method	limit/base	current	history1	history2
ppm	ASTM D6130	>15	<1	1	0
ppm	ASTM D6130	>10	<1	<1	0
ppm	ASTM D6130	>10	<1	1	<1
ppm		>10	<1	1	0
ppm		>10	0	<1	0
	ACTN DC100		•	1	0
ppm	ASTM D6130		0	I	Ŭ
ppm	method	limit/base	current	history1	history2
		limit/base			
	method	limit/base limit/base	current	history1	history2
ppm	method ASTM D6130		current 23	history1 18	history2 34
ppm	method ASTM D6130 method		current 23 current	history1 18 history1	history2 34 history2
ppm ppm	method ASTM D6130 method ASTM D6130		current 23 current 1425	history1 18 history1 2021	history2 34 history2 3776
ppm ppm ppm	method ASTM D6130 method ASTM D6130 ASTM D6130	limit/base	current 23 current 1425 9	history1 18 history1 2021 32	history2 34 history2 3776 15
	IATION hrs hrs hrs ESULTS Scale 0-14 ppm Scale 0-20 % °F BITORS ppm ppm ppm ppm ppm ppm ppm pp	ATION method Client Info Client Info Inrs Client Info Inrs Client Info Client Info Scale 0-14 ASTM D1287 ASTM D1287 ASTM D6130 ppm ASTM D6130	ATION method limit/base Client Info Client Info Inrs Client Info Inrs Client Info Client Info Sate State Client Info Sate Sate State Client Info Sate State Client Info Sate State Client Info Sate State Client Info Sate State Client Info Sate Sate Sate Sate Sate Sate Sate Sate	ATION method limit/base current   Client Info 0 29 Mar 2024 0.0001 0   hrs Client Info 0 0 0   hrs Client Info 0 0 0   hrs Client Info 0 0 0   Client Info 0 0 0 0   FT-IR   636 636 0   Scale 0-20 *ASTM D1287 7.95 0 10.00 1   Ppm AP-053:2009 636 110.00 1 1   %F ASTM D3221 24 110.0 1 1 1   ppm ASTM D6130 1	International and the second states where bedre b

Sample Rating Trend

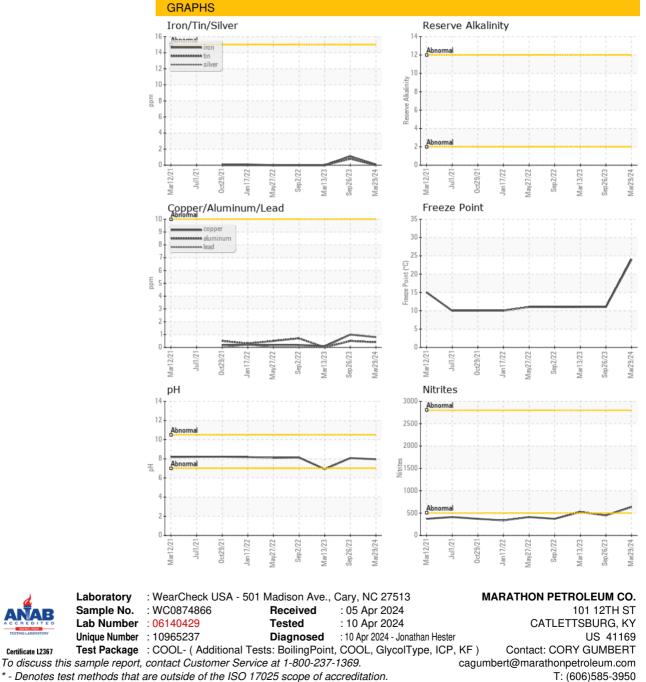
**OFF SPEC** 

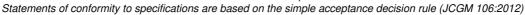


# **COOLANT REPORT**



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





Report Id: MARCAT [WUSCAR] 06140429 (Generated: 04/10/2024 12:05:45) Rev: 1

Certificate 12367

Submitted By: M/V MAP RUNNER

F: x: