

## **COOLANT REPORT**

# Area Findlay [Findlay] Coolant - Starboard Main Engine (Jacket) 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. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.



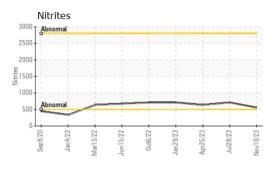
Sample Rating Trend



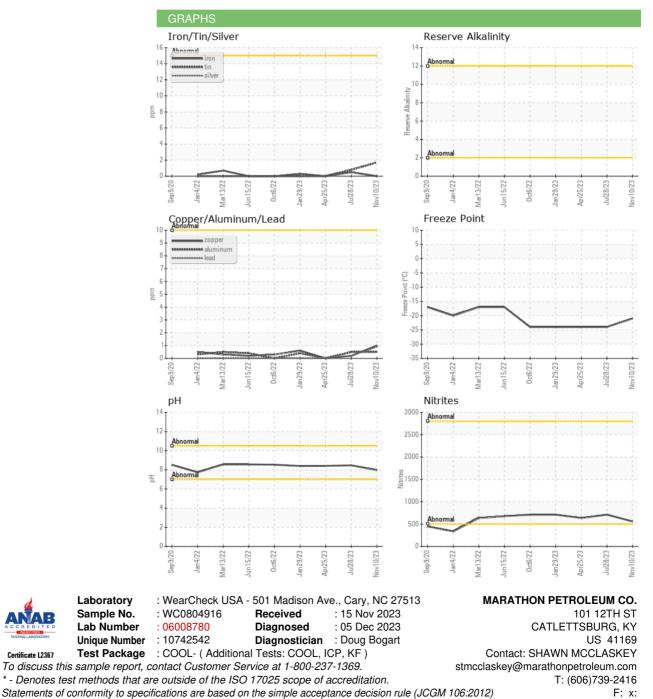
SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0804916	WC0769018	WC0735502
Sample Date		Client Info		10 Nov 2023	28 Jul 2023	25 Apr 2023
Machine Age	hrs	Client Info		9884	7914	6214
Oil Age	hrs	Client Info		9884	0	6214
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.060	1.062	1.062
рН	Scale 0-14	ASTM D1287		7.97	8.47	8.41
Nitrites	ppm	AP-053:2009		560	712	636
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		44.1	45.8	45.6
Freezing Point	°F	ASTM D3321		-21	-24	-24
Total Dissolved Solids				284.5	291.0	320.5
Carboxylate				fail	fail	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	11	10	6
Phosphorus	ppm	ASTM D6130	0	5	0	0
Boron	ppm	ASTM D6130	0	0	5	0
Molybdenum	ppm	ASTM D6130	950	442	963	1112
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0	<1	0
Aluminum	ppm	ASTM D6130	>10	<1	<1	0
Copper	ppm	ASTM D6130	>10	1	<1	0
Lead	ppm	ASTM D6130	>10	<1	<1	0
Tin	ppm	ASTM D6130	>10	2	<1	0
Zinc	ppm	ASTM D6130		1	0	0
CONTAMINANTS	;	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		21	14	5
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		2718	5478	5841
Potassium	ppm	ASTM D6130		16	1	0
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		2	1	2
Magnesium	ppm	ASTM D6130		4	4	5



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VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Red	Red	LtRed
Coolant Appearance	*Visual	Clear	normal	normal	normal
Color				no image	
Bottom				no image	



Submitted By: M/V FINDLAY

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