

# **COOLANT REPORT**

Calcium

Magnesium

## 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

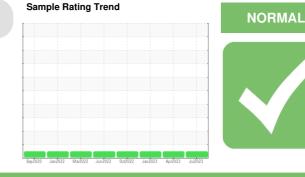
All metal levels are normal indicating no corrosion in the cooling system.

#### 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 INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0769018	WC0735502	WC0683283
Sample Date		Client Info		28 Jul 2023	25 Apr 2023	29 Jan 2023
Machine Age	hrs	Client Info		7914	6214	3801
Oil Age	hrs	Client Info		0	6214	3801
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.062	1.062	1.062
рН	Scale 0-14	ASTM D1287		8.47	8.41	8.40
Nitrites	ppm	AP-053:2009		712	636	712
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		45.8	45.6	45.6
Freezing Point	°F	ASTM D3321		-24	-24	-24
Total Dissolved Solids				291.0	320.5	289.0
Carboxylate				fail	pass	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	10	6	20
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	5	0	14
Molybdenum	ppm	ASTM D6130	950	963	1112	1006
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	<1	0	<1
Aluminum	ppm	ASTM D6130	>10	<1	0	<1
Copper	ppm	ASTM D6130	>10	<1	0	<1
Lead	ppm	ASTM D6130	>10	<1	0	0
Tin	ppm	ASTM D6130	>10	<1	0	0
Zinc	ppm	ASTM D6130		0	0	<1
CONTAMINANTS	1	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		14	5	15
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		5478	5841	5549
Potassium	ppm	ASTM D6130		1	0	30
SCALE POTENTI	A 1	method	limit/base	current	history1	history2

1

4

2

5

ASTM D6130

ASTM D6130

ppm

ppm

1

4



# **COOLANT REPORT**



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

