

COOLANT REPORT

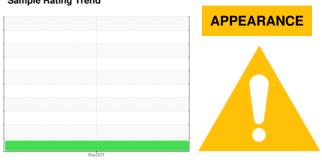
Sample Rating Trend

TampaMachine Id

[Tampa] Coolant - Starboard Main Engine (Jacket)

Starboard Coolant

{not provided} (--- GAL)



DIAGNOSIS

Recommendation

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's recommendations.

Corrosion

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

Contaminants

Sediment present.

Coolant Condition

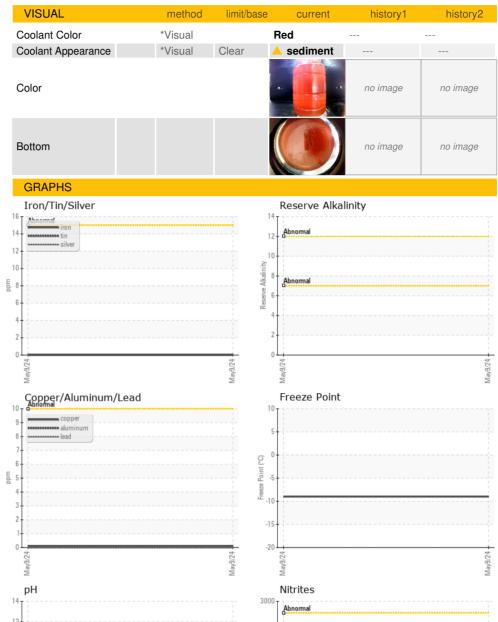
The glycol level is lower than acceptable. The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0874674		
Sample Date		Client Info		09 May 2024		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
PHYSICAL TEST F	ESULTS	method	limit/base	current	history1	history2
Glycol Type		FT-IR				
Specific Gravity		*ASTM D1298		1.052		
H	Scale 0-14	ASTM D1287		7.82		
Vitrites	ppm	AP-053:2009		748		
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		38.2		
Freezing Point	°F	ASTM D3321		-9		
Total Dissolved Solids				310.0		
Carboxylate				fail		
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		6		
Phosphorus	ppm	ASTM D6130		0		
Boron	ppm	ASTM D6130		0		
Molybdenum	ppm	ASTM D6130		464		
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0		
Aluminum	ppm	ASTM D6130	>10	0		
Copper	ppm	ASTM D6130	>10	<1		
Lead	ppm	ASTM D6130	>10	0		
Tin	ppm	ASTM D6130	>10	0		
Zinc	ppm	ASTM D6130		0		
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		39		
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		3434		
Potassium	ppm	ASTM D6130		6		
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		7		



COOLANT REPORT





2500

1000

500





Sample No.

Lab Number : 06181900 Unique Number : 11033226

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0874674 Received

: 16 May 2024 **Tested** : 24 May 2024 Diagnosed : 24 May 2024 - Jonathan Hester

101 12TH ST CATLETTSBURG, KY US 41169

MARATHON PETROLEUM CO.

Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF) Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: CORY GUMBERT cagumbert@marathonpetroleum.com T: (606)585-3950

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Submitted By: M/V TAMPA

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