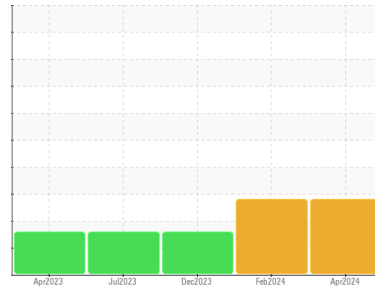




COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area

Huntington

Machine Id

[Huntington] Coolant - Starboard Genset

Component

Coolant

Fluid

{not provided} (--- 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 nitrite level is acceptable. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0845903	WC0804937	WC0804938
Sample Date	Client Info		20 Apr 2024	23 Feb 2024	11 Dec 2023
Machine Age	hrs	Client Info	19317	18403	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	Not Chngd	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.041	1.038	1.055
pH	Scale 0-14	ASTM D1287	9.07	8.21	8.57
Nitrites	ppm	AP-053:2009	1052	636	488
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	▲ 30.4	▲ 28.7	40.8
Freezing Point	°F	ASTM D3321	4	7	-13
Total Dissolved Solids			270.5	178.5	270.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	26	4	4
Phosphorus	ppm	ASTM D6130	0	0	0
Boron	ppm	ASTM D6130	249	0	0
Molybdenum	ppm	ASTM D6130	345	304	408

CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	2	1	▲ 32
Aluminum	ppm	ASTM D6130	>10	0	1	3
Copper	ppm	ASTM D6130	>10	<1	1	1
Lead	ppm	ASTM D6130	>10	0	<1	<1
Tin	ppm	ASTM D6130	>10	0	0	2
Zinc	ppm	ASTM D6130		0	<1	2

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		23	10	19

CARRIER SALTS

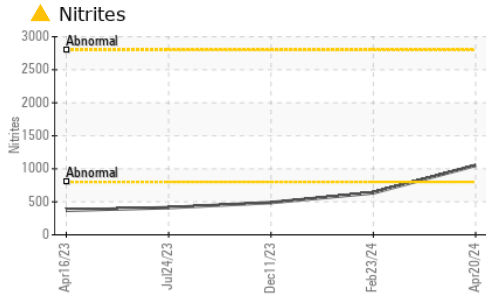
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		4017	2521	3440
Potassium	ppm	ASTM D6130		25	8	7

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		8	3	3
Magnesium	ppm	ASTM D6130		<1	4	2

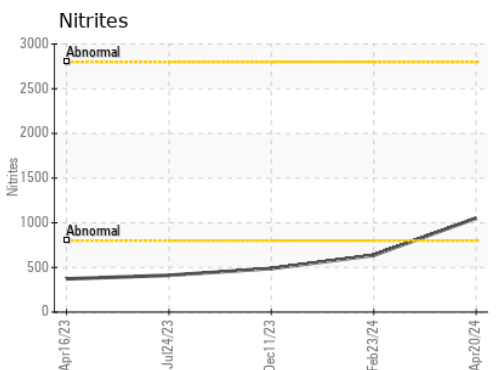
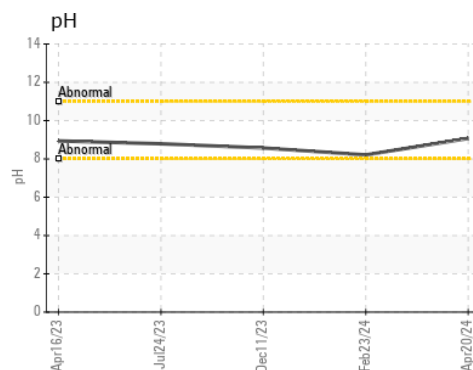
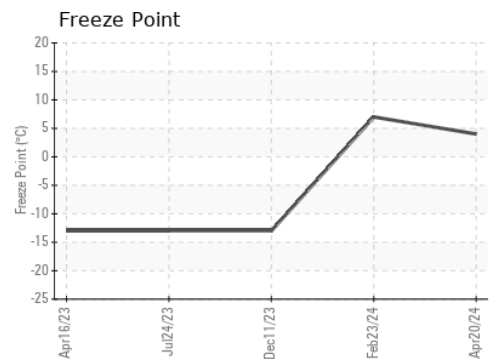
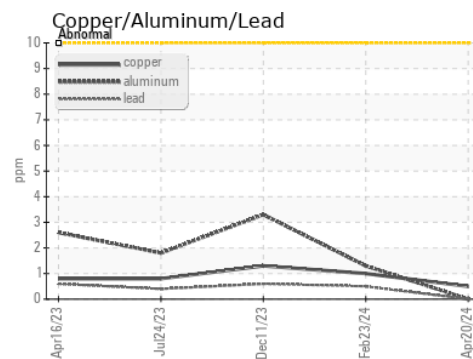
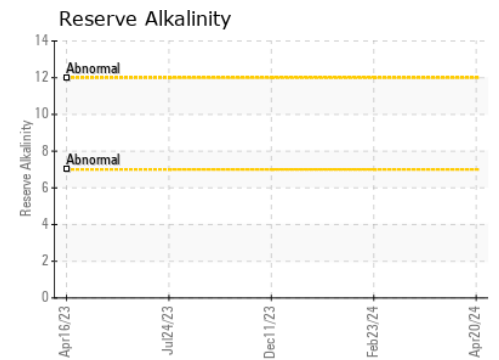
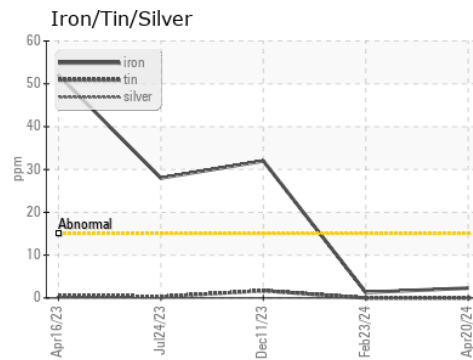


COOLANT REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0845903
Lab Number : 06181905
Unique Number : 11033231
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

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

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: CORY GUMBERT
 cagumbert@marathonpetroleum.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

T: (606)585-3950

F: x: