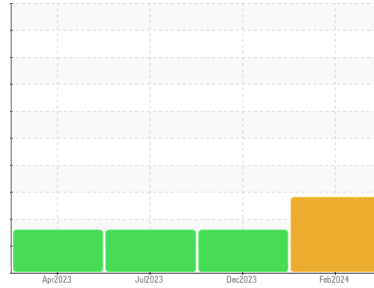




COOLANT REPORT

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		WC0804937	WC0804938	WC0769347
Sample Date	Client Info		23 Feb 2024	11 Dec 2023	24 Jul 2023
Machine Age	hrs	Client Info	18403	0	0
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.038	1.055	1.055
pH	Scale 0-14	ASTM D1287	8.21	8.57	8.79
Nitrites	ppm	AP-053:2009	636	488	412
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	▲ 28.7	40.8	40.4
Freezing Point	°F	ASTM D3321	7	-13	-13
Total Dissolved Solids			178.5	270.5	217.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	4	4	4
Phosphorus	ppm	ASTM D6130	0	0	0
Boron	ppm	ASTM D6130	0	0	6
Molybdenum	ppm	ASTM D6130	304	408	674

CORROSION

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

CONTAMINANTS

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

CARRIER SALTS

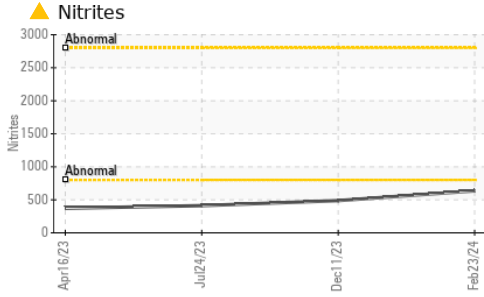
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		2521	3440
Potassium	ppm	ASTM D6130		8	7

SCALE POTENTIAL

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

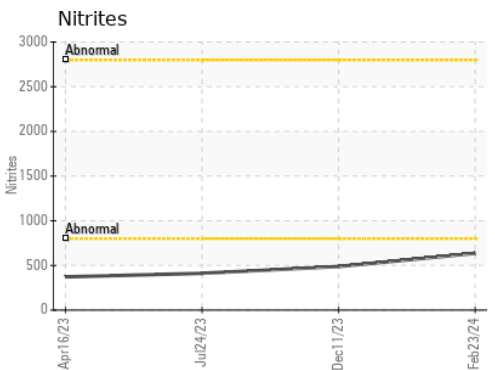
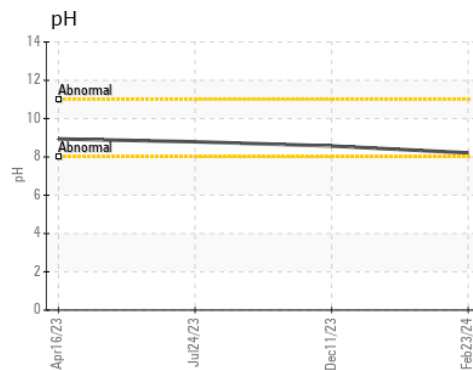
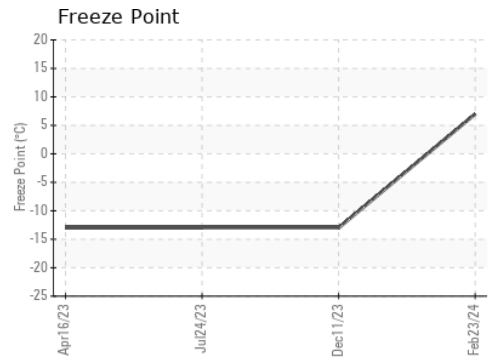
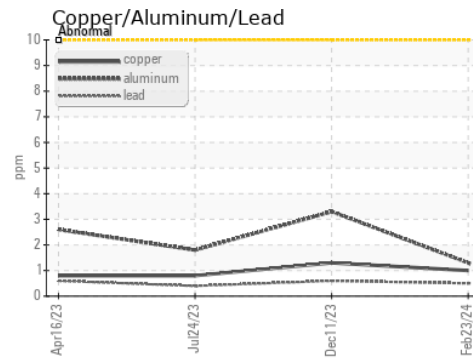
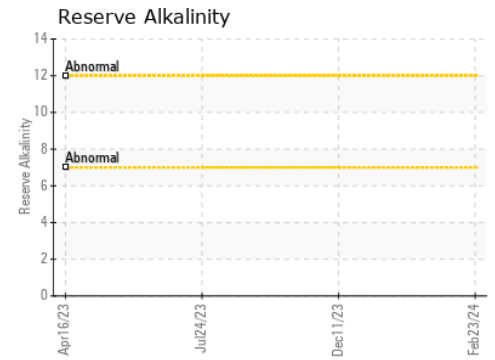
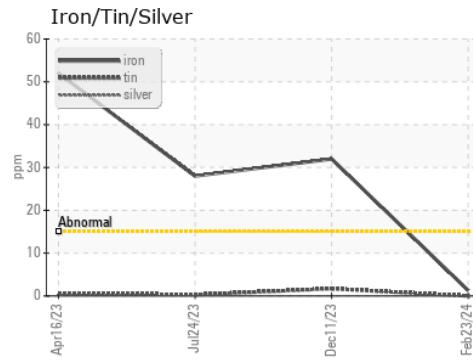


COOLANT REPORT



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

GRAPHS



Certificate L2367

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

Sample No. : WC0804937

Lab Number : 06131276

Unique Number : 10950741

Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

Received : 27 Mar 2024

Tested : 02 Apr 2024

Diagnosed : 02 Apr 2024 - Jonathan Hester

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

cagumbert@marathonpetroleum.com

T: (606)585-3950

F: x:

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)