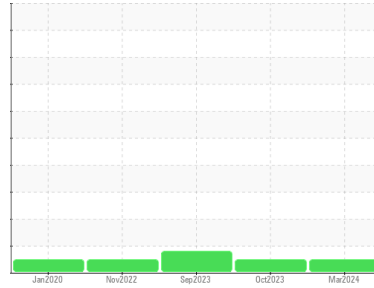




COOLANT REPORT

Sample Rating Trend

NORMAL



Area
Garyville
 Machine Id
[Garyville] Coolant - Starboard Genset
 Component
Starboard Coolant
 Fluid
EXTENDED LIFE COOLANT (35 GAL)

DIAGNOSIS

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. The glycol 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			WC0859887	WC0805190	WC0805379
Sample Date	Client Info			14 Mar 2024	23 Oct 2023	26 Sep 2023
Machine Age	hrs	Client Info		18047	0	16013
Oil Age	hrs	Client Info		3500	0	6000
Oil Changed	Client Info			N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	ABNORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Glycol Type	FT-IR			---	---	---
Specific Gravity	*ASTM D1298			1.063	1.067	1.066
pH	Scale 0-14	ASTM D1287		7.42	7.38	7.47
Nitrites	ppm	AP-053:2009		636	488	224
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321		46.4	49.2	48.9
Freezing Point	°F	ASTM D3321		-26	-33	-31
Total Dissolved Solids				261.5	299.5	349.0
Carboxylate				fail	fail	fail

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		19	18	20
Phosphorus	ppm	ASTM D6130		5	7	6
Boron	ppm	ASTM D6130		<1	0	8
Molybdenum	ppm	ASTM D6130		541	578	655

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	4	0	2
Aluminum	ppm	ASTM D6130	>10	0	0	1
Copper	ppm	ASTM D6130	>10	<1	1	2
Lead	ppm	ASTM D6130	>10	<1	<1	1
Tin	ppm	ASTM D6130	>10	0	1	1
Zinc	ppm	ASTM D6130		0	1	1

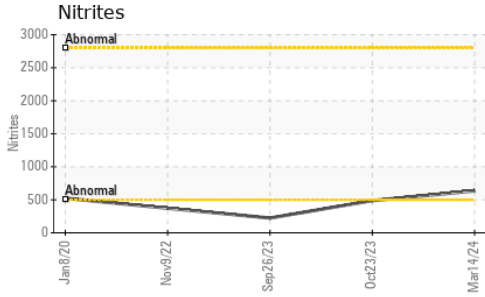
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		9	12	14

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		3403	3357	4196
Potassium	ppm	ASTM D6130		56	19	24

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		5	5	8
Magnesium	ppm	ASTM D6130		3	4	5

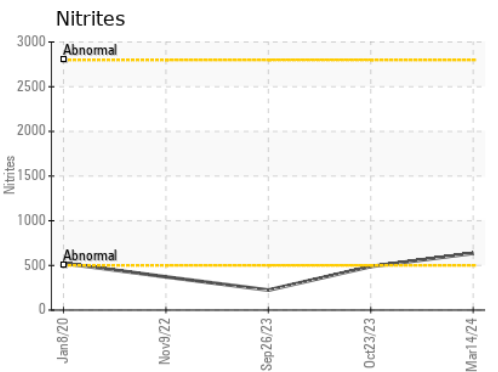
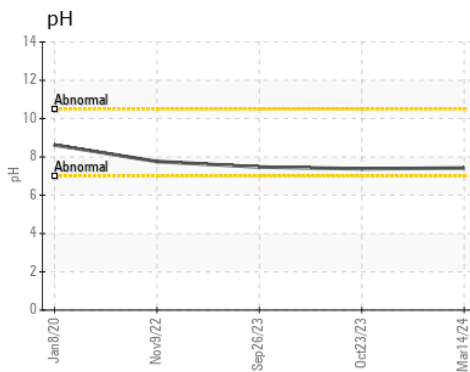
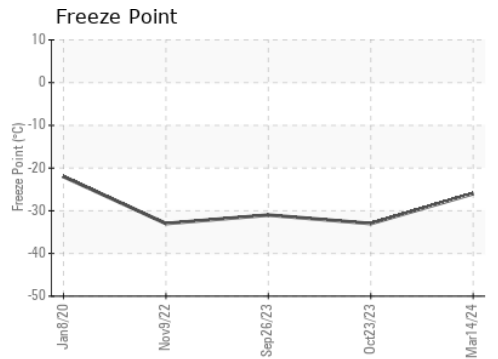
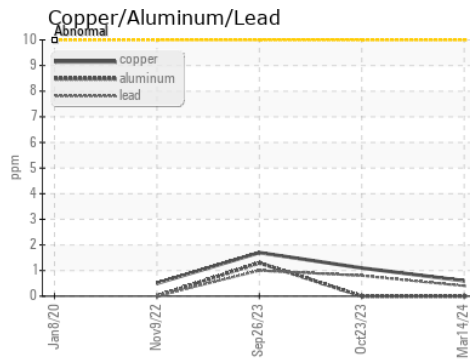
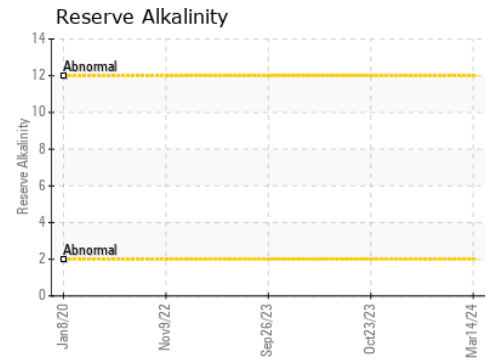
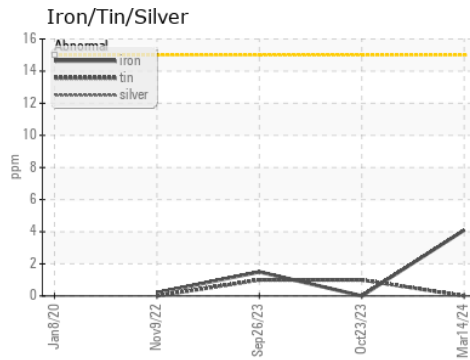


COOLANT REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0859887
Lab Number : 06122876
Unique Number : 10937027
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

Received : 19 Mar 2024
Tested : 22 Mar 2024
Diagnosed : 22 Mar 2024 - Jonathan Hester

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: SHAWN MCCLASKEY
 stmclaskey@marathonpetroleum.com
 T: (606)739-2416
 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)