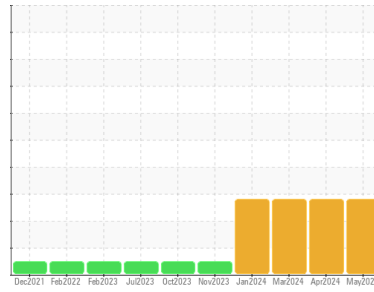




COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area

Louisville

Machine Id

[Louisville] Coolant - Starboard Genset

Component

Coolant

Fluid

MOBIL 15W40 (--- 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

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		WC0898525	WC0874765	WC0874804
Sample Date	Client Info		29 May 2024	28 Apr 2024	13 Mar 2024
Machine Age	hrs	Client Info	12742	12436	11980
Oil Age	hrs	Client Info	7037	0	0
Oil Changed	Client Info		N/A	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		1.022	1.024	1.035
pH	Scale 0-14	ASTM D1287	8.18	8.10	8.22
Nitrites	ppm	AP-053:2009	560	636	636
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	▲ 17.8	▲ 19.3	▲ 26.5
Freezing Point	°F	ASTM D3321	19	17	9
Total Dissolved Solids			132.5	179.0	182.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	4	4	4
Phosphorus	ppm	ASTM D6130	2	0	0
Boron	ppm	ASTM D6130	7	16	37
Molybdenum	ppm	ASTM D6130	229	236	320

CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	4	1	2
Aluminum	ppm	ASTM D6130	>10	1	0	2
Copper	ppm	ASTM D6130	>10	<1	0	1
Lead	ppm	ASTM D6130	>10	0	0	<1
Tin	ppm	ASTM D6130	>10	0	0	0
Zinc	ppm	ASTM D6130	>1578	<1	0	<1

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	27	28	22

CARRIER SALTS

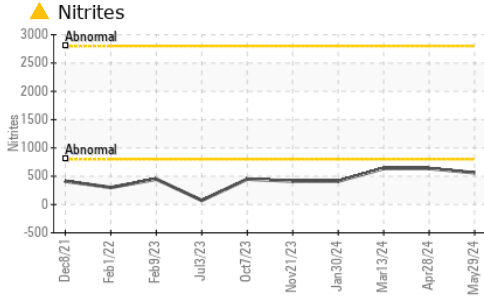
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	1659	1882	2530
Potassium	ppm	ASTM D6130	6	10	9

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130	>3370	15	12	9
Magnesium	ppm	ASTM D6130	>948	8	8	5

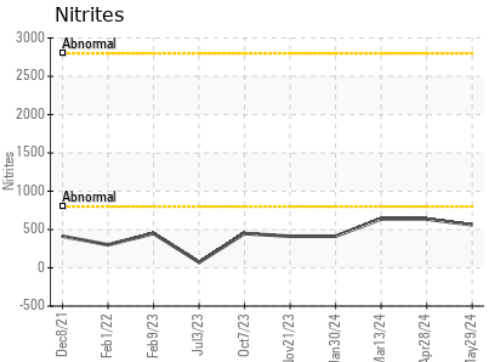
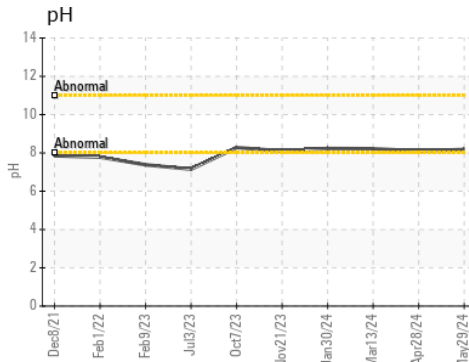
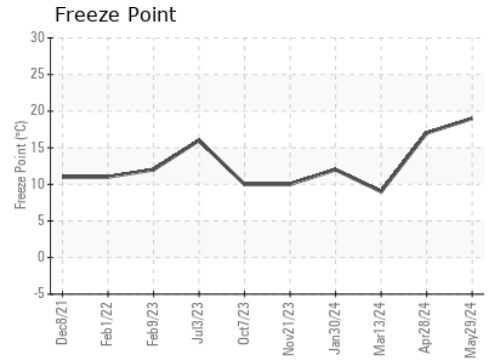
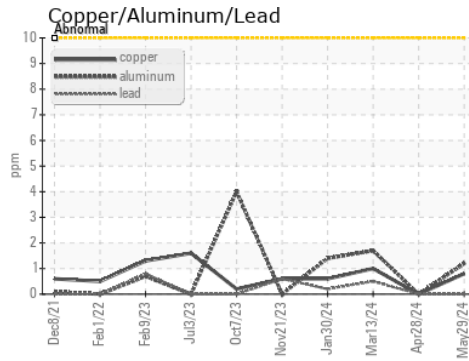
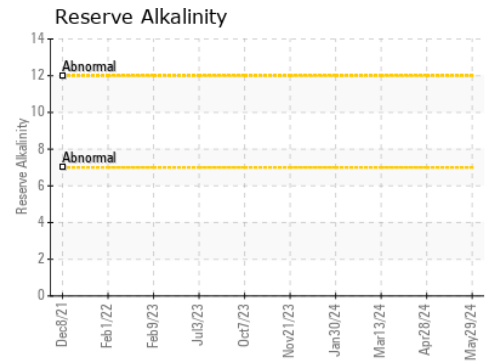
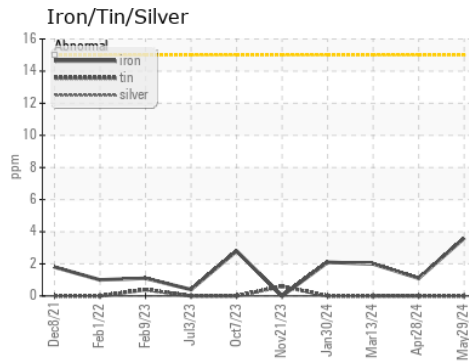


COOLANT REPORT



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

GRAPHS



Certificate L2367

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

Sample No. : WC0898525

Lab Number : 06201951

Unique Number : 11069412

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

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)

Received : 06 Jun 2024

Tested : 11 Jun 2024

Diagnosed : 11 Jun 2024 - Jonathan Hester

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

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T: (606)585-3950

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