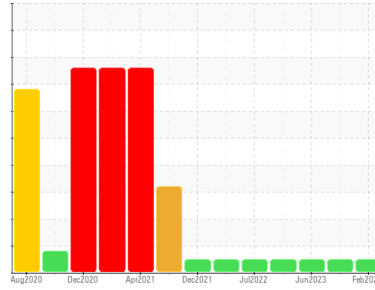




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Nashville

Machine Id

[Nashville] Coolant - Port Main Engine

Component

Coolant

Fluid

CAT EXTENDED LIFE COOLANT (ELC) (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service. (Customer Sample Comment: 2000 hr main engine 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. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0769320	WC0805239	WC0683263
Sample Date	Client Info	29 Feb 2024	27 Nov 2023	13 Jun 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Glycol Type	FT-IR	---	---	---
Specific Gravity	*ASTM D1298	1.056	1.057	1.057
pH	Scale 0-14 ASTM D1287	8.46	8.49	8.56
Nitrites	ppm AP-053:2009	524	712	412
Reserve Alkalinity	Scale 0-20 *ASTM D1121	---	---	---
Percentage Glycol	% ASTM D3321	41.6	42.1	42.4
Freezing Point	°F ASTM D3321	-15	-17	-17
Total Dissolved Solids		317.0	257.5	303.5
Carboxylate		fail	fail	fail

CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130 0	8	192	10
Phosphorus	ppm ASTM D6130 0	2	0	0
Boron	ppm ASTM D6130 0	11	12	17
Molybdenum	ppm ASTM D6130 950	395	337	828

CORROSION

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

CONTAMINANTS

method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130	11	8	0

CARRIER SALTS

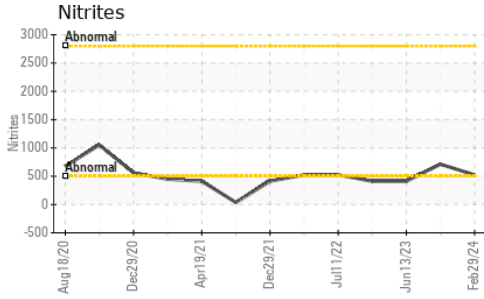
method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130	4088	2991	5372
Potassium	ppm ASTM D6130	14	8	26

SCALE POTENTIAL

method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130	4	9	17
Magnesium	ppm ASTM D6130	6	4	8

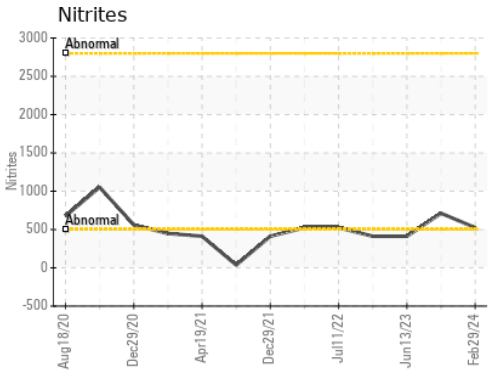
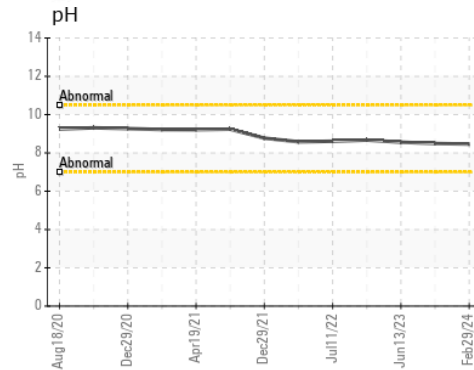
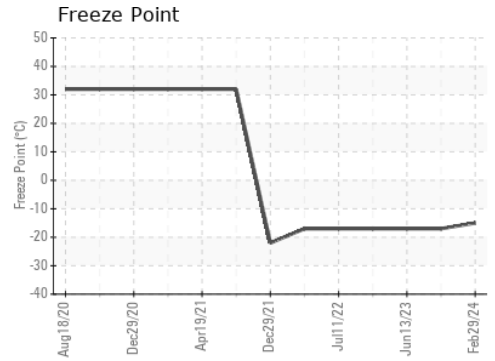
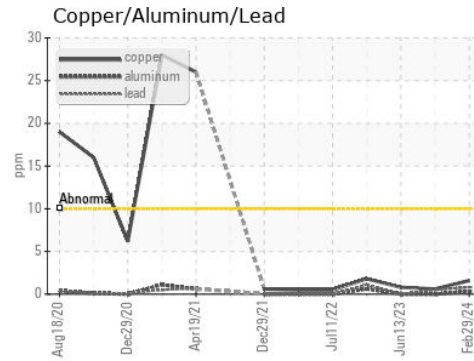
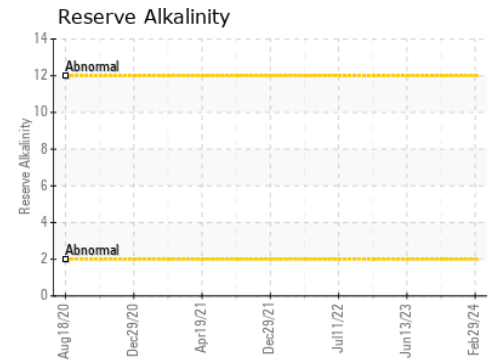
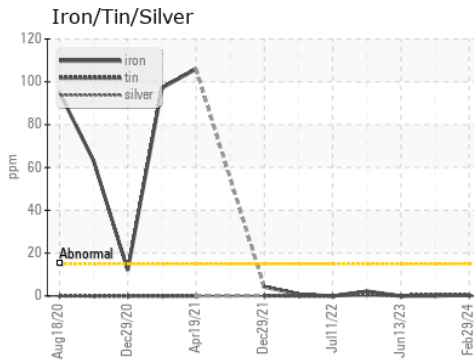


COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Orange	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. : WC0769320

Lab Number : 06140439

Unique Number : 10965247

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

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 : 05 Apr 2024

Tested : 10 Apr 2024

Diagnosed : 10 Apr 2024 - Jonathan Hester

MARATHON PETROLEUM CO.

101 12TH ST

CATLETTSBURG, KY

US 41169

Contact: CORY GUMBERT

cagumbert@marathonpetroleum.com

T: (606)585-3950

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