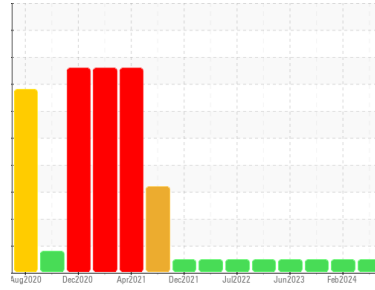




COOLANT REPORT

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: Dparnell)

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		WC0874889	WC0769320	WC0805239
Sample Date	Client Info		15 Apr 2024	29 Feb 2024	27 Nov 2023
Machine Age	hrs	Client Info	59565	0	0
Oil Age	hrs	Client Info	4441	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		1.054	1.056	1.057
pH	Scale 0-14	ASTM D1287	8.65	8.46	8.49
Nitrites	ppm	AP-053:2009	712	524	712
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	39.7	41.6	42.1
Freezing Point	°F	ASTM D3321	-11	-15	-17
Total Dissolved Solids			265.0	317.0	257.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	4	8	192
Phosphorus	ppm	ASTM D6130	0	0	2	0
Boron	ppm	ASTM D6130	0	23	11	12
Molybdenum	ppm	ASTM D6130	950	354	395	337

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		18	11	8

CARRIER SALTS

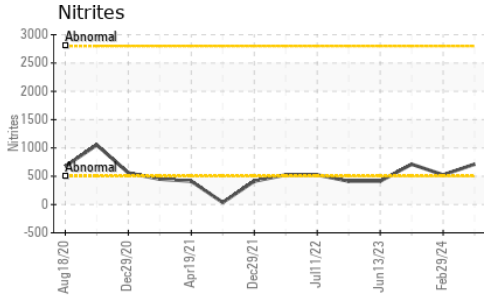
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		3259	4088	2991
Potassium	ppm	ASTM D6130		6	14	8

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		7	4	9
Magnesium	ppm	ASTM D6130		3	6	4

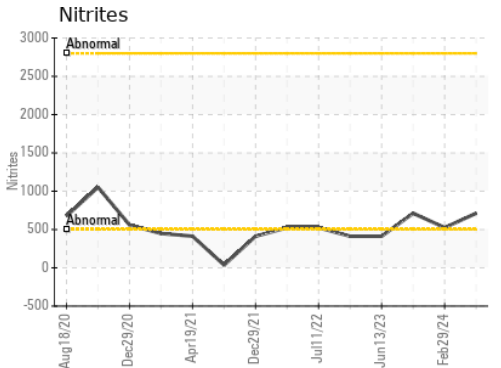
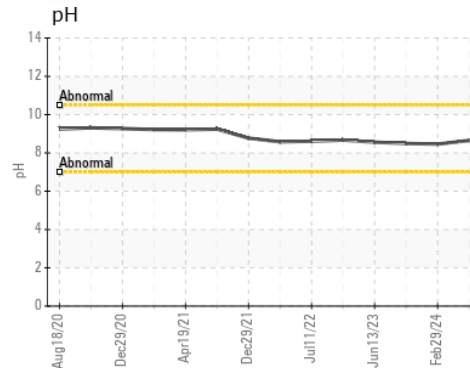
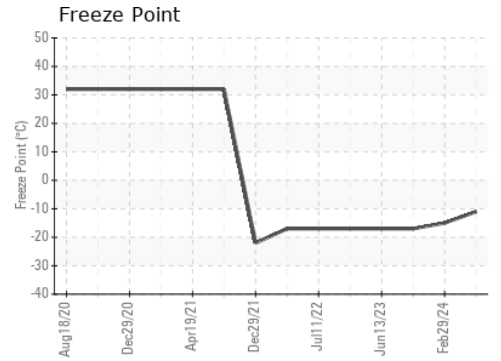
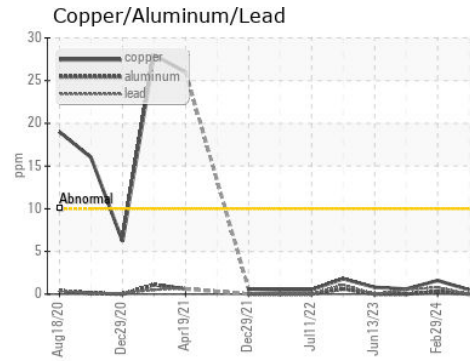
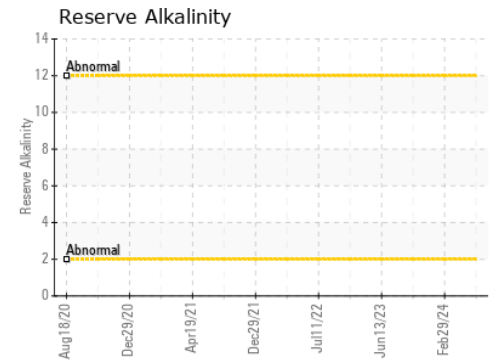
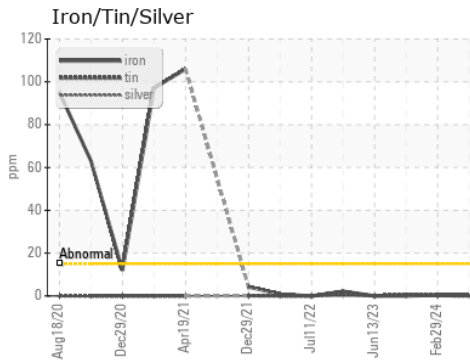


COOLANT REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0874889
Lab Number : 06158226
Unique Number : 10993649
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

Received : 23 Apr 2024
Tested : 29 Apr 2024
Diagnosed : 29 Apr 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: