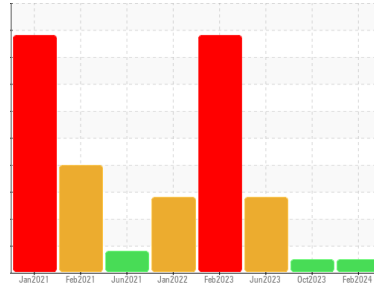




COOLANT REPORT

Sample Rating Trend



NORMAL



Area
Galveston Bay
 Machine Id
[Galveston Bay] Coolant - Port Main Engine (Jacket)
 Component
Port 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.

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		WC0769373	WC0805203	WC0769364
Sample Date	Client Info		28 Feb 2024	10 Oct 2023	20 Jun 2023
Machine Age	hrs	Client Info	0	10185	8426
Oil Age	hrs	Client Info	0	10185	8426
Oil Changed	Client Info		N/A	N/A	Oil Added
Sample Status			NORMAL	NORMAL	ABNORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.052	1.043	1.033
pH	Scale 0-14 ASTM D1287		8.45	8.02	8.22
Nitrites	ppm AP-053:2009		636	636	36
Reserve Alkalinity	Scale 0-20 *ASTM D1121		---	---	---
Percentage Glycol	% ASTM D3321		38.8	32.0	▲ 25.2
Freezing Point	°F ASTM D3321		-9	1	10
Total Dissolved Solids			280.0	254.5	171.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	0	4	12	0
Phosphorus	ppm ASTM D6130	0	0	80	0
Boron	ppm ASTM D6130	0	0	0	0
Molybdenum	ppm ASTM D6130	950	424	326	577

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	3	1	0
Aluminum	ppm ASTM D6130	>10	0	4	0
Copper	ppm ASTM D6130	>10	<1	<1	0
Lead	ppm ASTM D6130	>10	<1	0	0
Tin	ppm ASTM D6130	>10	0	0	0
Zinc	ppm ASTM D6130		0	0	0

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		12	41	85

CARRIER SALTS

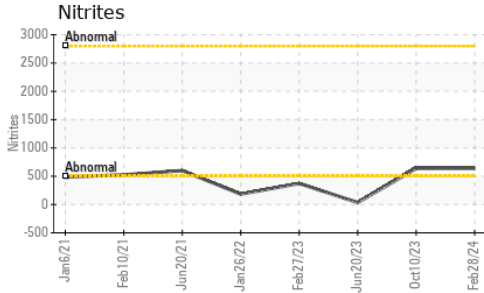
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		2958	2603	4187
Potassium	ppm ASTM D6130		11	0	0

SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		5	11	25
Magnesium	ppm ASTM D6130		4	8	11

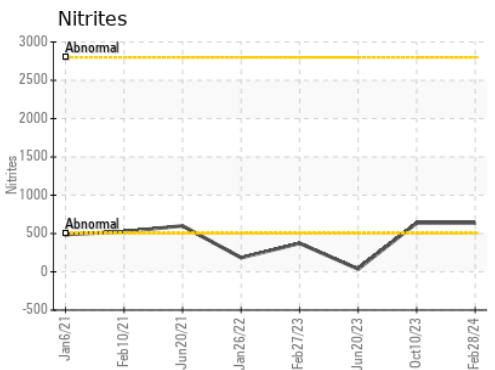
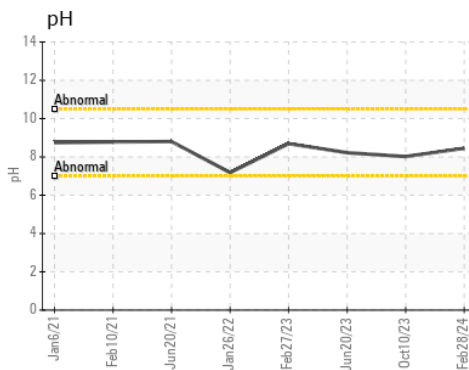
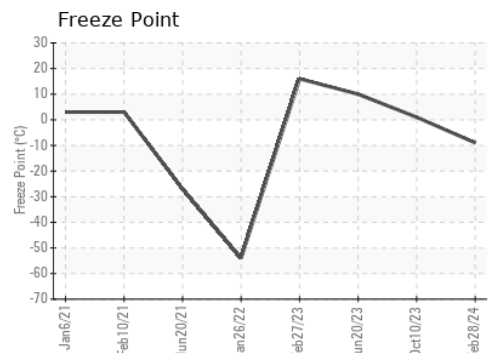
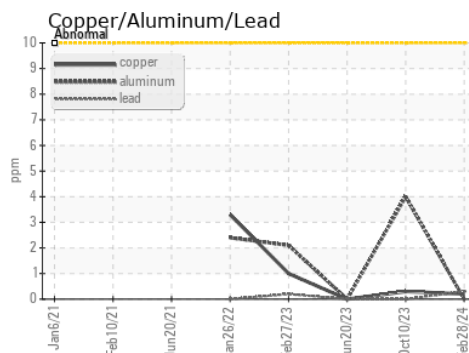
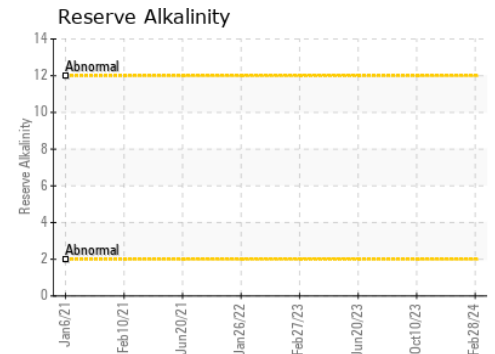
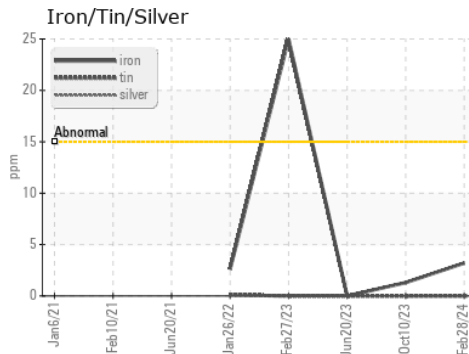


COOLANT REPORT



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. : WC0769373
Lab Number : 06122866
Unique Number : 10937017
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

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
 stmccclaskey@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)739-2416

F: x: