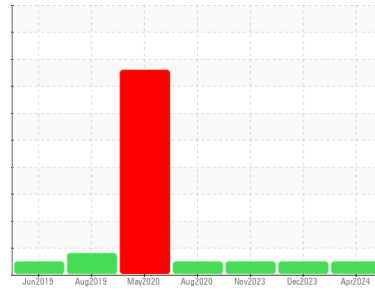




COOLANT REPORT

Sample Rating Trend



NORMAL



Area

Ohio Valley

Machine Id

[Ohio Valley] Coolant - Starboard Main Engine

Component

Coolant

Fluid

CATERPILLAR ELC (--- GAL)

DIAGNOSIS

Recommendation

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 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		WC0845995	WC0845998	WC0845955
Sample Date	Client Info		04 Apr 2024	22 Dec 2023	25 Nov 2023
Machine Age	hrs	Client Info	63623	61569	60981
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		N/A	Not Changd	N/A
Sample Status			NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.033	1.034	1.034
pH	Scale 0-14	ASTM D1287	8.26	8.31	8.32
Nitrites	ppm	AP-053:2009	560	488	676
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	25.8	25.9	25.9
Freezing Point	°F	ASTM D3321	10	10	10
Total Dissolved Solids			194.0	245.5	199.5
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	13	12	13
Phosphorus	ppm	ASTM D6130	0	0	0	3
Boron	ppm	ASTM D6130	0	37	38	37
Molybdenum	ppm	ASTM D6130	950	268	319	287

CORROSION

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

CONTAMINANTS

	method	limit/base	current	history1	history2	
Chlorine	ppm	ASTM D6130		20	19	14

CARRIER SALTS

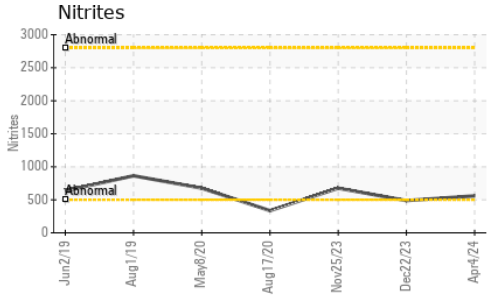
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		2360	2676	2276
Potassium	ppm	ASTM D6130		7	8	8

SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		28	30	28
Magnesium	ppm	ASTM D6130		2	4	3

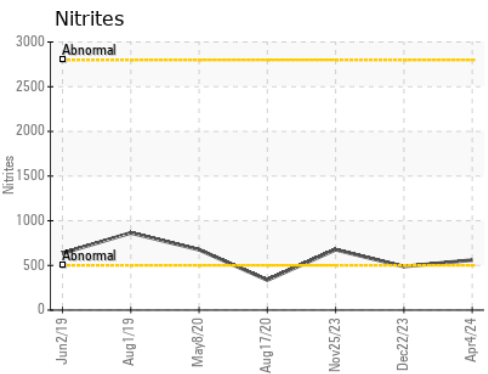
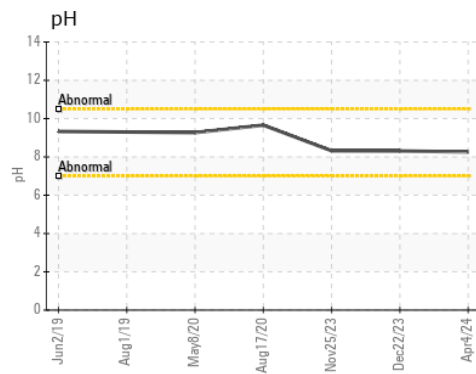
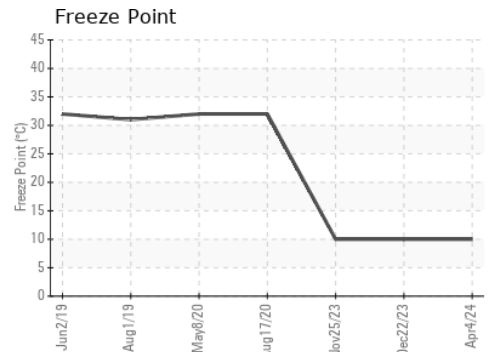
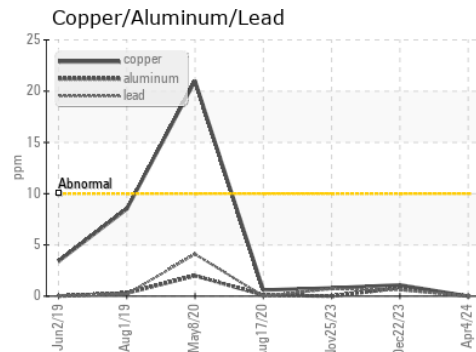
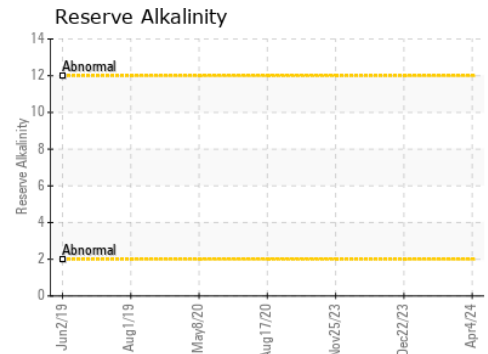
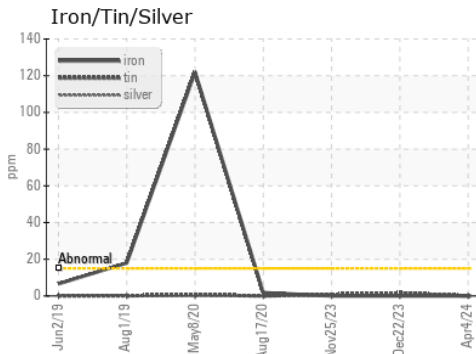


COOLANT REPORT



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. : WC0845995 **Received** : 23 Apr 2024
Lab Number : 06158223 **Tested** : 29 Apr 2024
Unique Number : 10993646 **Diagnosed** : 29 Apr 2024 - Jonathan Hester
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP, KF)

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: