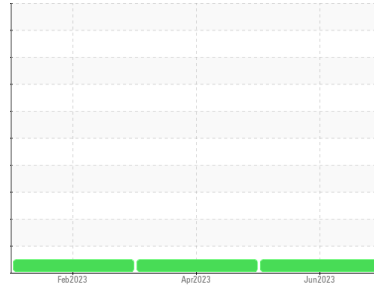




COOLANT REPORT

Sample Rating Trend

NORMAL



Area
West Virginia
 Machine Id
[West Virginia] Coolant - Starboard Genset
 Component
Coolant
 Fluid
CATERPILLAR ELC (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service. (Customer Sample Comment: Thurman Richardson)

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		WC0769149	WC0769414	WC0735805
Sample Date	Client Info		30 Jun 2023	16 Apr 2023	19 Feb 2023
Machine Age	hrs	Client Info	24493	23556	0
Oil Age	hrs	Client Info	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
Specific Gravity	*ASTM D1298		1.022	1.022	1.022
pH	Scale 0-14	ASTM D1287	8.07	8.17	8.20
Nitrites	ppm	AP-053:2009	560	260	148
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	18.0	18.1	18.0
Freezing Point	°F	ASTM D3321	18	18	18
Total Dissolved Solids			103.0	113.5	119.0
Carboxylate			fail	fail	fail

CORROSION INHIBITORS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D6130	0	52	26	29
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	14	1	7
Molybdenum	ppm	ASTM D6130	950	7	3	5

CORROSION

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D6130	>15	2	4	3
Aluminum	ppm	ASTM D6130	>10	0	0	<1
Copper	ppm	ASTM D6130	>10	1	<1	<1
Lead	ppm	ASTM D6130	>10	0	<1	<1
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		66	76	95

CARRIER SALTS

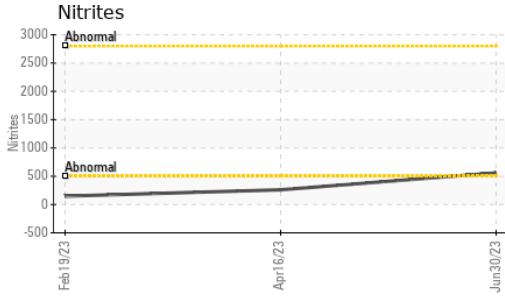
	method	limit/base	current	history1	history2	
Sodium	ppm	ASTM D6130		2424	2158	2579
Potassium	ppm	ASTM D6130		529	476	516

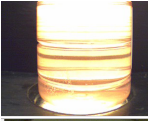

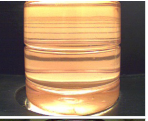



SCALE POTENTIAL

	method	limit/base	current	history1	history2	
Calcium	ppm	ASTM D6130		18	16	21
Magnesium	ppm	ASTM D6130		4	3	4

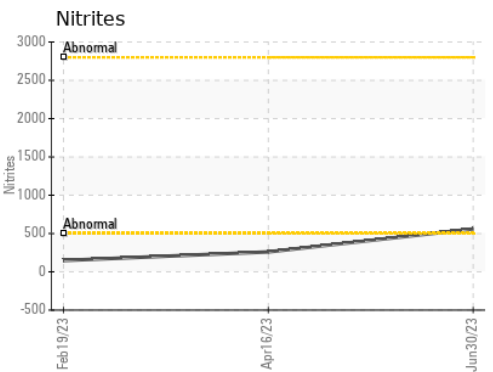
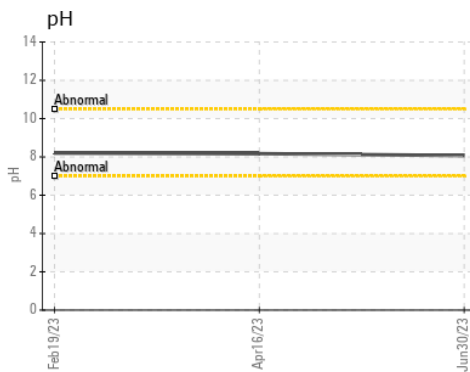
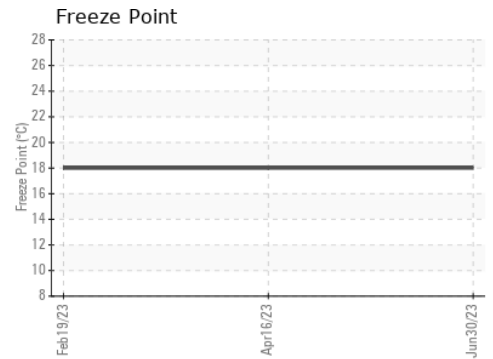
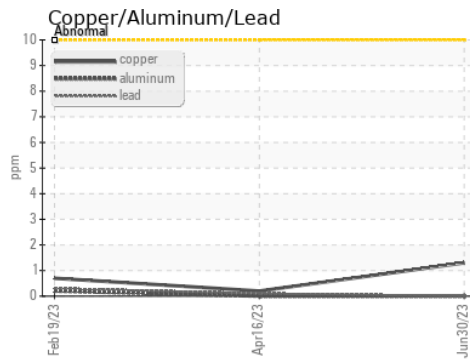
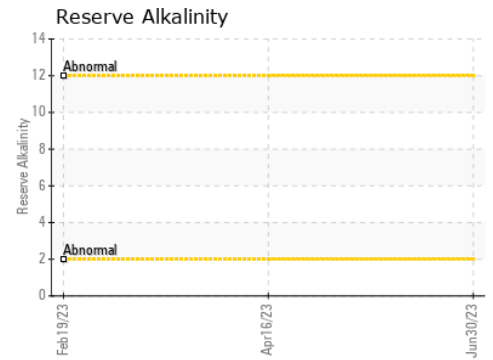
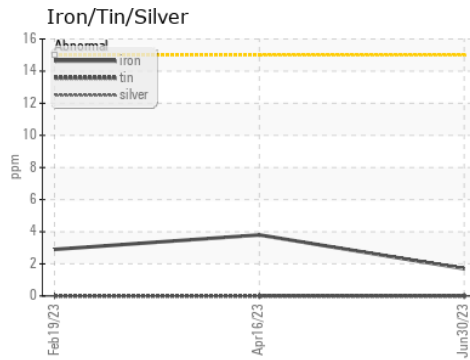


COOLANT REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0769149 **Received** : 17 Jul 2023
Lab Number : 05900367 **Diagnosed** : 20 Jul 2023
Unique Number : 10561723 **Diagnostician** : Jonathan Hester
Test Package : COOL- (Additional Tests: COOL, ICP)

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: CORY GUMBERT
 cagumbert@marathonpetroleum.com
 T: (606)585-3950
 F: x:

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)