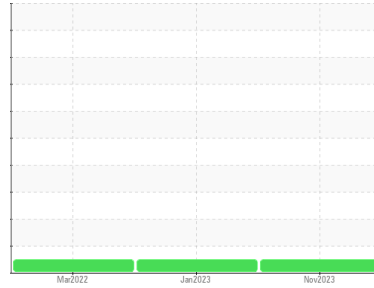




COOLANT REPORT

Sample Rating Trend

NORMAL



Area
Cincinnati
 Machine Id
[Cincinnati] Coolant - Port 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: Top Up Amount: GAL)

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	WC0805541	WC0735303	WC0621748
Sample Date	Client Info	08 Nov 2023	31 Jan 2023	28 Mar 2022
Machine Age	hrs Client Info	12761	12761	12761
Oil Age	hrs Client Info	12761	12761	0
Oil Changed	Client Info	Oil Added	N/A	N/A
Sample Status		NORMAL	NORMAL	NORMAL

PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298	1.050	1.059	1.057
pH	Scale 0-14 ASTM D1287	8.20	8.74	9.00
Nitrites	ppm AP-053:2009	636	712	600
Reserve Alkalinity	Scale 0-20 *ASTM D1121	---	---	---
Percentage Glycol	% ASTM D3321	37.1	43.6	42.3
Freezing Point	°F ASTM D3321	-7	-19	-17
Total Dissolved Solids		214.0	461.0	289.0
Carboxylate		fail	pass	pass

CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130 0	5	21	12
Phosphorus	ppm ASTM D6130 0	2	0	0
Boron	ppm ASTM D6130 0	0	11	0
Molybdenum	ppm ASTM D6130 950	172	455	510

CORROSION

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

CONTAMINANTS

method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130	16	12	0

CARRIER SALTS

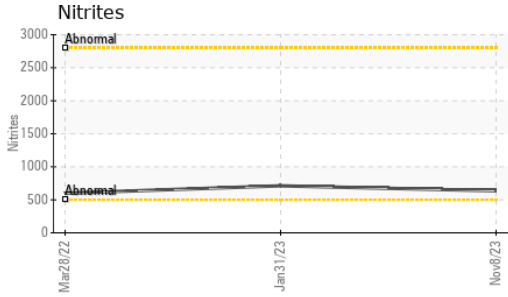
method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130	2447	5304	2723
Potassium	ppm ASTM D6130	32	78	9

SCALE POTENTIAL

method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130	6	3	4
Magnesium	ppm ASTM D6130	7	8	7

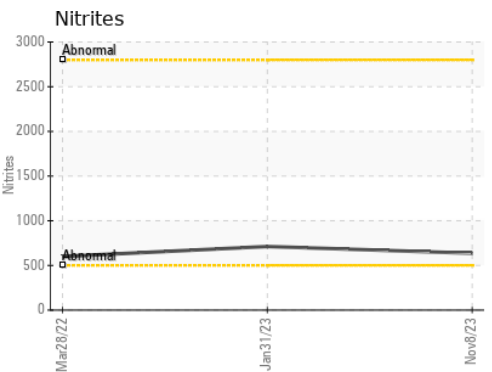
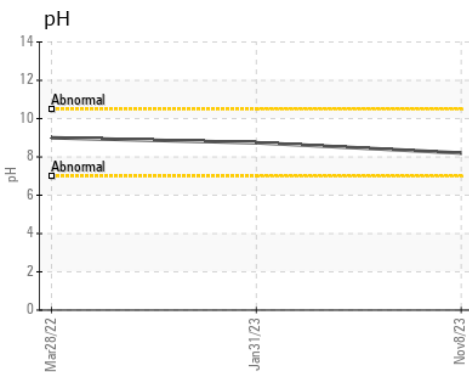
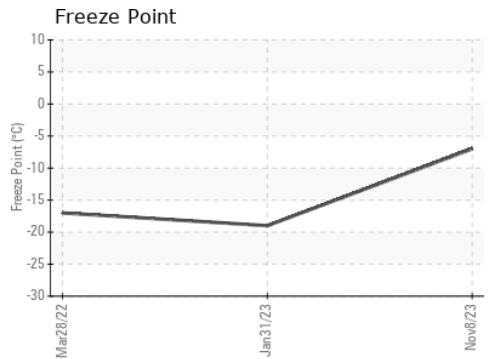
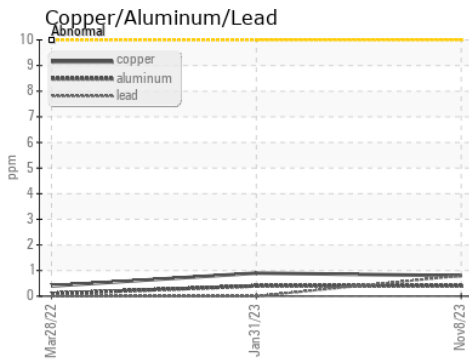
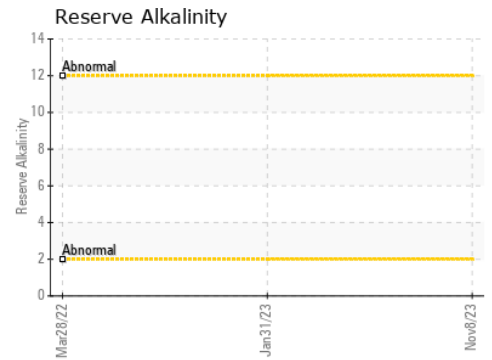
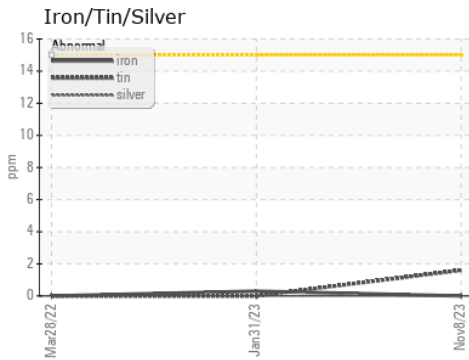


COOLANT REPORT



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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0805541 **Received** : 15 Nov 2023
Lab Number : 06008778 **Diagnosed** : 05 Dec 2023
Unique Number : 10742540 **Diagnostician** : Doug Bogart
Test Package : COOL- (Additional Tests: COOL, ICP, KF)

MARATHON PETROLEUM CO.
 101 12TH ST
 CATLETTSBURG, KY
 US 41169
 Contact: M/V CINCINNATI
 mvcincinnati@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)