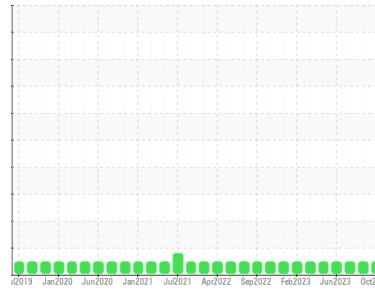




COOLANT REPORT

Sample Rating Trend



NORMAL



Area
Kentucky
 Machine Id
[Kentucky] Coolant - Port Main Engine (Jacket)
 Component
Coolant
 Fluid
CATERPILLAR 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. 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			WC0805477	WC0769172	WC0769206
Sample Date	Client Info			30 Oct 2023	25 Aug 2023	06 Jul 2023
Machine Age	hrs	Client Info		10972	9756	8984
Oil Age	hrs	Client Info		10972	0	8984
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		1.067	1.066	1.065
pH	Scale 0-14	ASTM D1287		7.80	7.84	7.65
Nitrites	ppm	AP-053:2009		560	412	224
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321		49.3	49.0	48.0
Freezing Point	°F	ASTM D3321		-33	-33	-31
Total Dissolved Solids				328.0	348.0	339.5
Carboxylate				fail	fail	pass

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	12	30	35
Phosphorus	ppm	ASTM D6130	0	<1	0	0
Boron	ppm	ASTM D6130	0	10	21	28
Molybdenum	ppm	ASTM D6130	950	585	910	952

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	2	10	1
Aluminum	ppm	ASTM D6130	>10	1	1	<1
Copper	ppm	ASTM D6130	>10	<1	3	2
Lead	ppm	ASTM D6130	>10	<1	<1	<1
Tin	ppm	ASTM D6130	>10	<1	<1	1
Zinc	ppm	ASTM D6130		0	1	<1

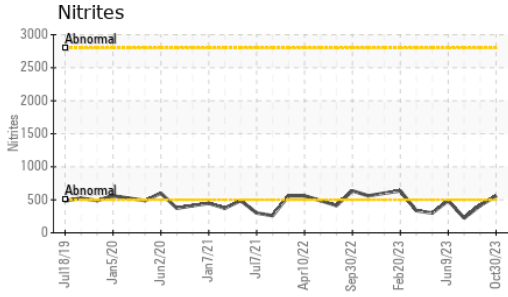
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		10	27	28

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		3845	5256	6001
Potassium	ppm	ASTM D6130		8	5	106

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		7	14	10
Magnesium	ppm	ASTM D6130		4	5	6

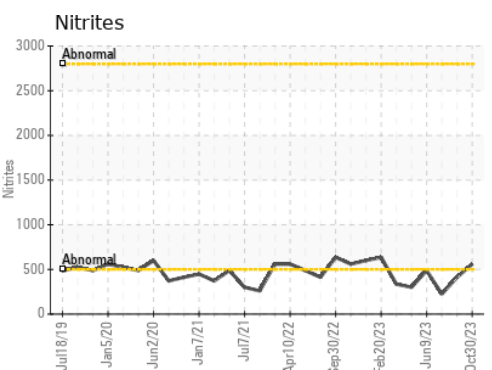
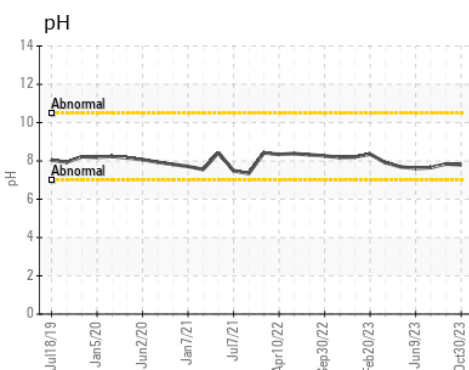
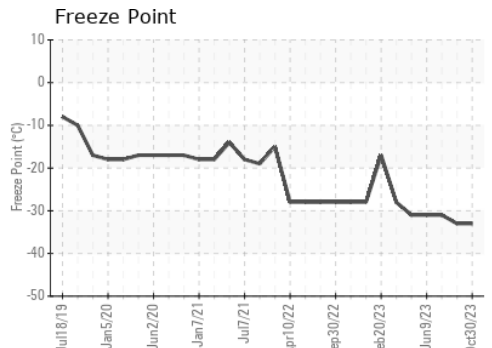
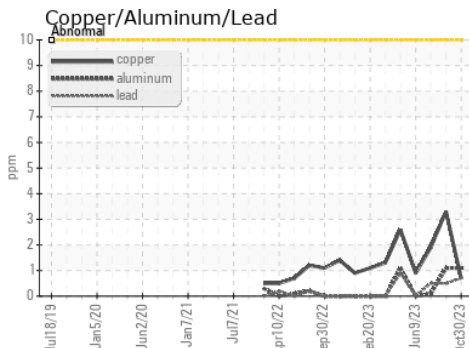
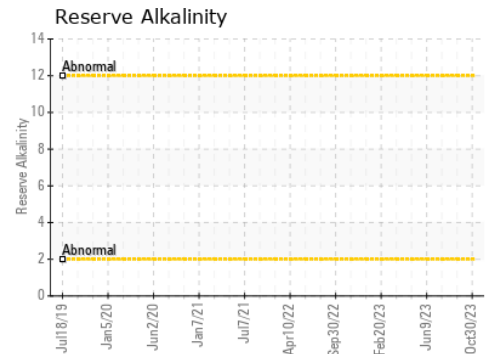
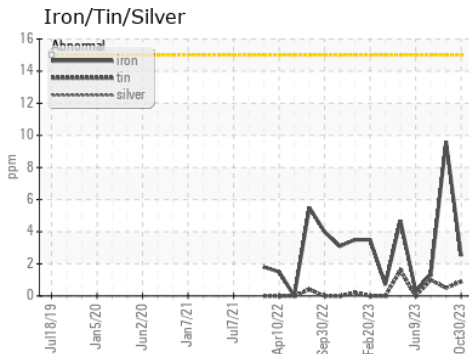


COOLANT REPORT



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

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0805477 **Received** : 06 Nov 2023
Lab Number : 05999506 **Diagnosed** : 15 Nov 2023
Unique Number : 10727866 **Diagnostician** : Doug Bogart
Test Package : COOL- (Additional Tests: COOL, ICP, KF)

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

Certificate L2367
 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)