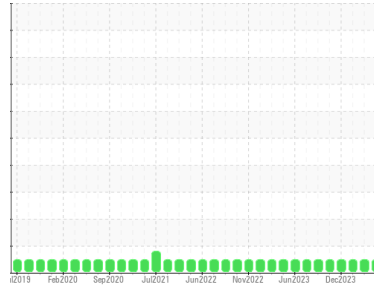




COOLANT REPORT

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. (Customer Sample Comment: Tyson Bias)

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	WC0874823	WC0859930	WC0845760
Sample Date	Client Info	16 Mar 2024	16 Feb 2024	20 Jan 2024
Machine Age	hrs Client Info	0	12942	0
Oil Age	hrs Client Info	0	12942	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
Glycol Type	FT-IR	---	---	---
Specific Gravity	*ASTM D1298	1.057	1.067	1.067
pH	Scale 0-14 ASTM D1287	8.43	7.74	7.66
Nitrites	ppm AP-053:2009	748	300	488
Reserve Alkalinity	Scale 0-20 *ASTM D1121	---	---	---
Percentage Glycol	% ASTM D3321	42.5	49.5	50.0
Freezing Point	°F ASTM D3321	-17	-33	-35
Total Dissolved Solids		210.5	279.0	330.0
Carboxylate		fail	fail	fail

CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130 0	11	11	14
Phosphorus	ppm ASTM D6130 0	0	0	0
Boron	ppm ASTM D6130 0	22	7	6
Molybdenum	ppm ASTM D6130 950	576	548	658

CORROSION

method	limit/base	current	history1	history2
Iron	ppm ASTM D6130 >15	1	3	9
Aluminum	ppm ASTM D6130 >10	1	1	0
Copper	ppm ASTM D6130 >10	<1	2	1
Lead	ppm ASTM D6130 >10	<1	2	<1
Tin	ppm ASTM D6130 >10	0	0	<1
Zinc	ppm ASTM D6130	<1	<1	0

CONTAMINANTS

method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130	3	9	3

CARRIER SALTS

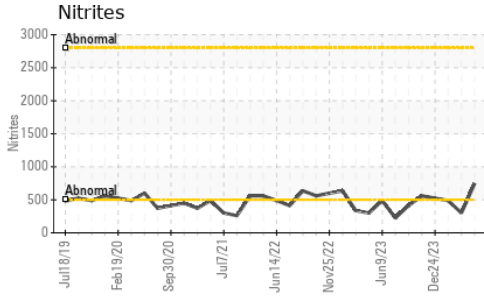
method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130	3650	3740	4500
Potassium	ppm ASTM D6130	27	6	9

SCALE POTENTIAL

method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130	27	6	6
Magnesium	ppm ASTM D6130	2	3	2

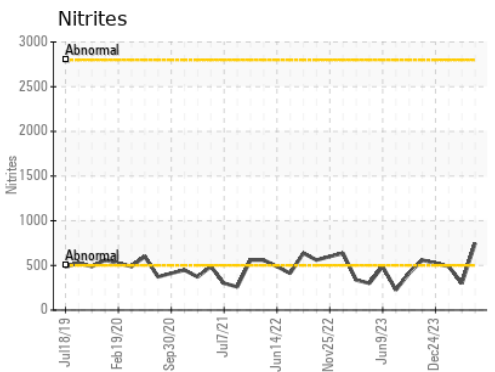
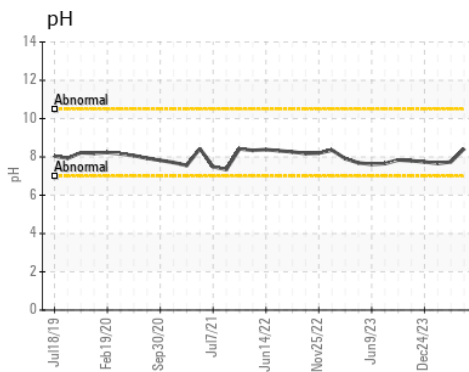
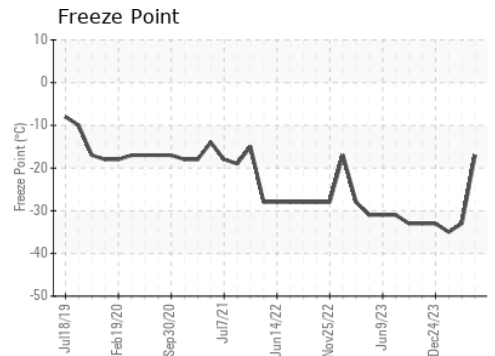
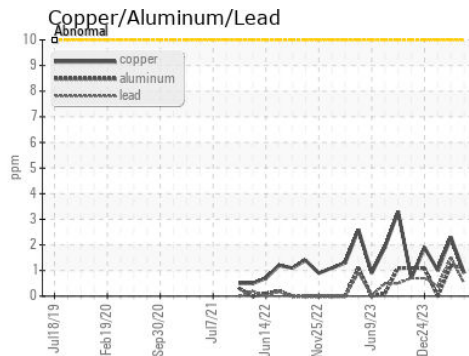
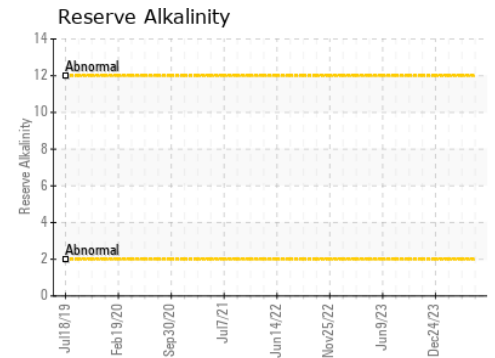
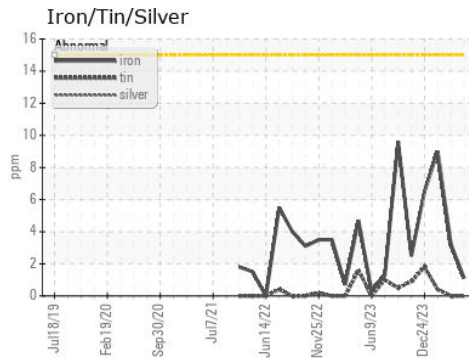


COOLANT REPORT



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. : WC0874823
Lab Number : 06131271
Unique Number : 10950736
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: