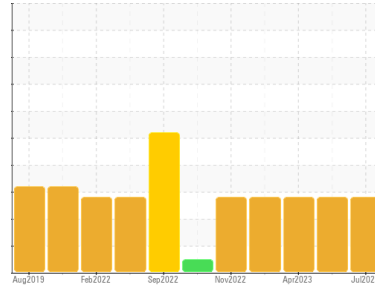




COOLANT REPORT

Sample Rating Trend



OFF SPEC



Area
Martinsville
 Machine Id
[Martinsville] Coolant - Port Genset
 Component
Coolant
 Fluid
CATERPILLAR ELC (--- GAL)

DIAGNOSIS

Recommendation

We recommend that you perform a partial drain and top off with straight water to decrease abnormal level of overconcentrated antifreeze.

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

The glycol level is higher than acceptable. The carboxylate level of this fluid 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			WC0769446	WC0769437	WC0600456
Sample Date	Client Info			10 Jul 2023	13 Jun 2023	18 Apr 2023
Machine Age	hrs	Client Info		3795	3488	2805
Oil Age	hrs	Client Info		3795	3488	2805
Oil Changed	Client Info			N/A	Not Changd	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.092	1.091	1.091
pH	Scale 0-14	ASTM D1287		7.72	7.67	7.65
Nitrites	ppm	AP-053:2009		524	336	412
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321		▲ 72.1	▲ 71.6	▲ 71.0
Freezing Point	°F	ASTM D3321		-65	-66	-66
Total Dissolved Solids				611.0	761.0	693.5
Carboxylate				pass	fail	fail

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	42	33	41
Phosphorus	ppm	ASTM D6130	0	0	0	16
Boron	ppm	ASTM D6130	0	210	293	286
Molybdenum	ppm	ASTM D6130	950	150	223	226

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	3	4	3
Aluminum	ppm	ASTM D6130	>10	<1	0	0
Copper	ppm	ASTM D6130	>10	6	4	6
Lead	ppm	ASTM D6130	>10	<1	0	0
Tin	ppm	ASTM D6130	>10	1	<1	0
Zinc	ppm	ASTM D6130		<1	<1	1

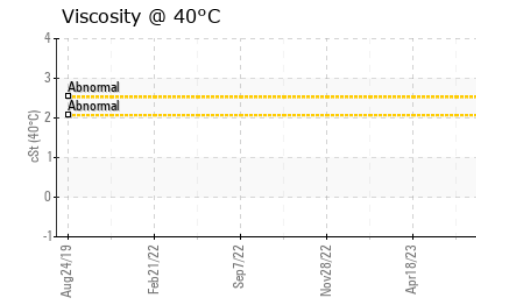
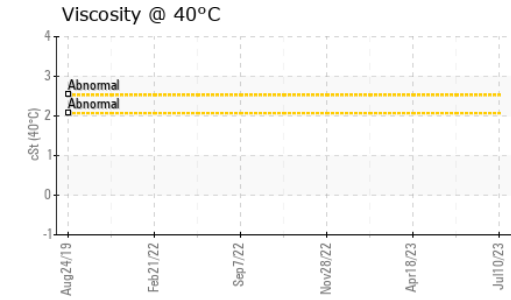
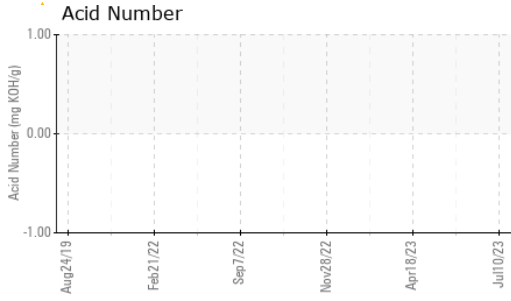
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		282	368	370

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		5615	6499	8383
Potassium	ppm	ASTM D6130		6395	8936	10000

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		120	185	154
Magnesium	ppm	ASTM D6130		51	75	65

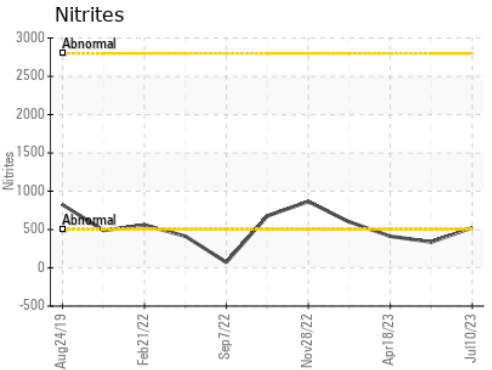
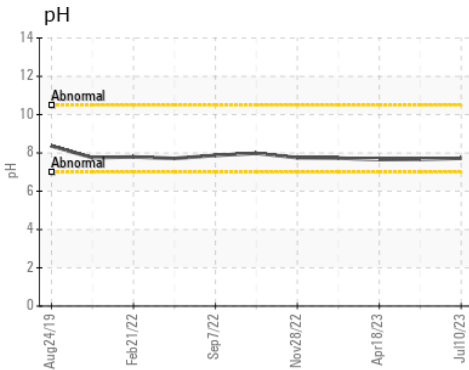
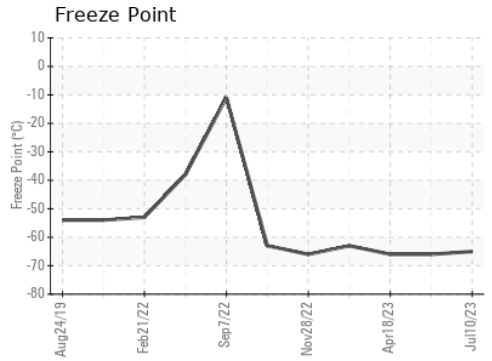
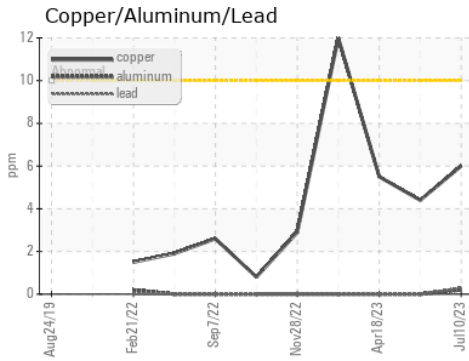
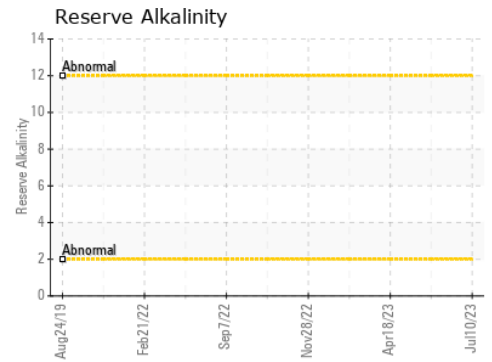
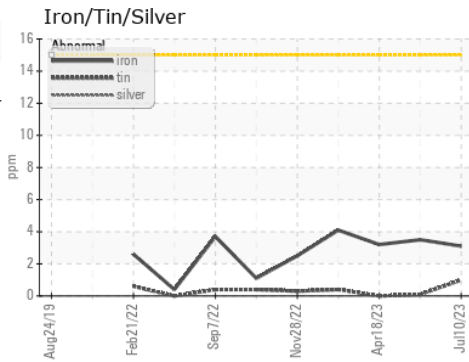


COOLANT REPORT



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

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0769446 **Received** : 21 Jul 2023
Lab Number : 05904722 **Diagnosed** : 01 Aug 2023
Unique Number : 10566078 **Diagnostician** : Doug Bogart
Test Package : COOL- (Additional Tests: COOL, ICP, KV40, SCREEN, TAN Man)

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)