

COOLANT REPORT

Sample Rating Trend

NORMAL

Nashville [Nashville] Coolant - Port Main Engine Component Coolant

CATERPILLAR ELC (--- GAL)

Recommendation

No corrective action is recommended at this time. The fluid is suitable for further service.

Corrosion

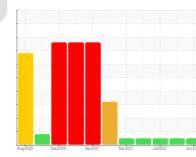
All metal levels are normal indicating no corrosion in the cooling system.

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.

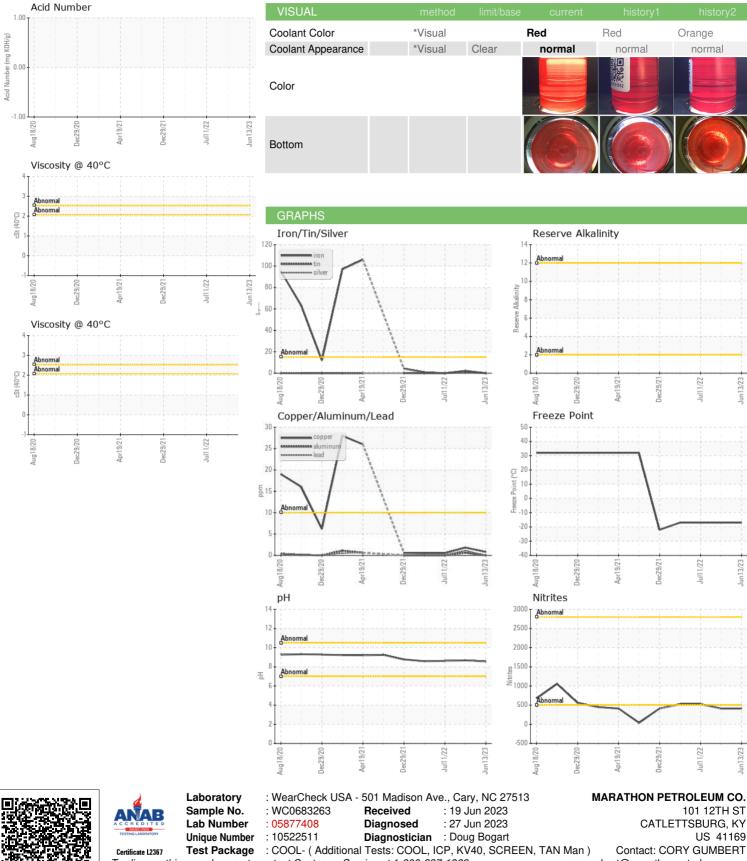




SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0683263	WC0731852	RP0016011
Sample Date		Client Info		13 Jun 2023	27 Nov 2022	11 Jul 2022
Machine Age	hrs	Client Info		0	50831	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL TEST F	ESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.057	1.057	1.057
рН	Scale 0-14	ASTM D1287		8.56	8.67	8.61
Nitrites	ppm	AP-053:2009		412	412	524
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		42.4	42.5	42.3
Freezing Point	°F	ASTM D3321		-17	-17	-17
Total Dissolved Solids				303.5	296.5	301.5
Carboxylate				fail	pass	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	10	30	21
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	17	47	19
Molybdenum	ppm	ASTM D6130	950	828	885	889
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0	2	0
Aluminum	ppm	ASTM D6130	>10	0	<1	0
Copper	ppm	ASTM D6130	>10	<1	2	<1
Lead	ppm	ASTM D6130	>10	0	1	0
Tin	ppm	ASTM D6130	>10	0	1	0
Zinc	ppm	ASTM D6130		0	1	0
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		0	36	15
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		5372	5729	2354
Potassium	ppm	ASTM D6130		26	29	19
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		17	24	25
Magnesium	ppm	ASTM D6130		8	8	5
0	1.1-			-		



COOLANT REPORT



To discuss this sample report, contact Customer Service at 1-800-237-1369. cagumbert@marathonpetroleum.com * - 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)

Submitted By: M/V NASHVILLE

Orange

normal

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101 12TH ST

T: (606)585-3950

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Page 2 of 2