

COOLANT REPORT

Kentucky [Kentucky] Coolant - Starboard Main Engine (Jacket)

Component Coolant

CATERPILLAR ELC (--- GAL)





Recommendation

The fluid is suitable for further service.

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

Contaminants

There is no indication of any contamination in the coolant.

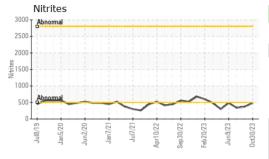
Coolant Condition

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

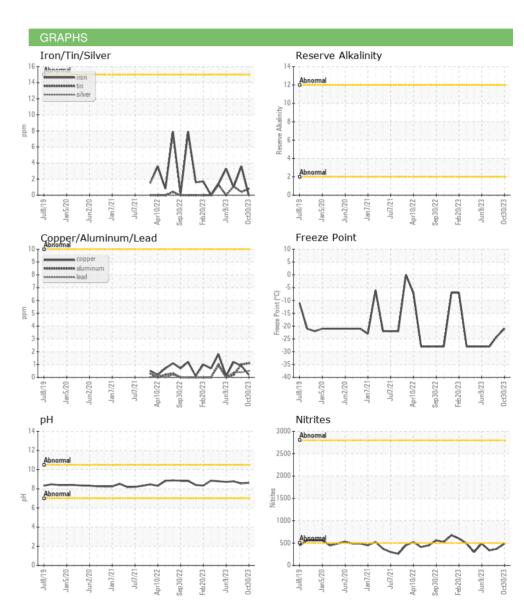
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0805482	WC0769173	WC0769202
Sample Date		Client Info		30 Oct 2023	25 Aug 2023	06 Jul 2023
Machine Age	hrs	Client Info		10966	9750	8977
Oil Age	hrs	Client Info		10966	0	8977
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		1.060	1.062	1.064
рН	Scale 0-14	ASTM D1287		8.63	8.55	8.79
Nitrites	ppm	AP-053:2009		488	372	336
Reserve Alkalinity	Scale 0-20	*ASTM D1121				
Percentage Glycol	%	ASTM D3321		44.5	45.4	47.3
Freezing Point	°F	ASTM D3321		-21	-24	-28
Total Dissolved Solids				300.0	314.0	328.0
Carboxylate				fail	fail	pass
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	0	8	21	25
Phosphorus	ppm	ASTM D6130	0	0	0	0
Boron	ppm	ASTM D6130	0	8	18	24
Molybdenum	ppm	ASTM D6130	950	507	844	911
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	0	4	1
Aluminum	ppm	ASTM D6130	>10	1	1	<1
Copper	ppm	ASTM D6130	>10	<1	<1	1
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		12	25	26
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		3593	5118	6209
Potassium	ppm	ASTM D6130		8	3	173
SCALE POTENTI	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		6	12	6
Magnesium	ppm	ASTM D6130		3	3	2



COOLANT REPORT



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





Laboratory Sample No. Lab Number Unique Number : 10727864

: WC0805482 : 05999504

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 15 Nov 2023 Diagnostician : Doug Bogart

: 06 Nov 2023

Test Package : COOL- (Additional Tests: COOL, ICP, KF) 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.

MARATHON PETROLEUM CO.

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