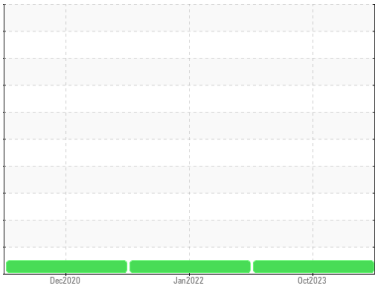
COOLANT REPORT

Sample Rating Trend



NORMAL

Area
Texas City
Machine Id
[Texas City] Coolant - Port Main Engine
Component
Coolant
Fluid
CONVENTIONAL COOLANT (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you perform a partial drain and top off with straight antifreeze to increase level of glycol.

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. The glycol level is lower than acceptable. The nitrite level 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		**WC0735702**	WC0621596	RP0007992
Sample Date		Client Info		**16 Oct 2023**	20 Jan 2022	26 Dec 2020
Machine Age	hrs	Client Info		**10848**	10848	6183
Oil Age	hrs	Client Info		**10848**	0	104
Oil Changed		Client Info		**N/A**	N/A	Filtered
Sample Status				**NORMAL**	NORMAL	NORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		*ASTM D1298		**1.011**	---	---
pH	Scale 0-14	ASTM D1287		**8.96**	9.25	9.61
Nitrites	ppm	AP-053:2009		**2556**	1916	976
Reserve Alkalinity	Scale 0-20	*ASTM D1121		**---**	---	---
Percentage Glycol	%	ASTM D3321		**10.6**	13	13
Freezing Point	°F	ASTM D3321		**26**	23	+22
Total Dissolved Solids				**393.5**	206.5	202.5
Carboxylate				**fail**	fail	pass

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130		**91**	181	90
Phosphorus	ppm	ASTM D6130		**401**	370	374
Boron	ppm	ASTM D6130		**145**	286	142
Molybdenum	ppm	ASTM D6130		**152**	162	34

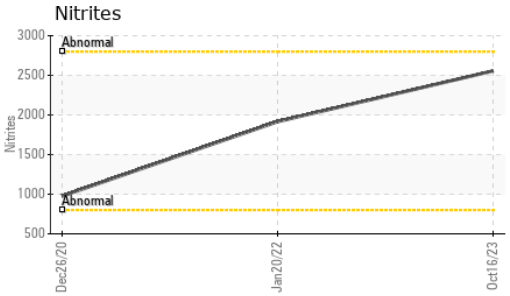
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15	**0**	<1	0
Aluminum	ppm	ASTM D6130	>10	**1**	0	0
Copper	ppm	ASTM D6130	>10	**2**	2	0
Lead	ppm	ASTM D6130	>10	**<1**	<1	0
Tin	ppm	ASTM D6130	>10	**<1**	0	0
Zinc	ppm	ASTM D6130		**0**	<1	0

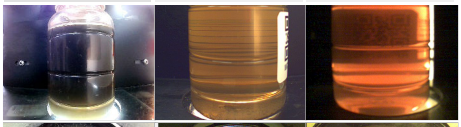
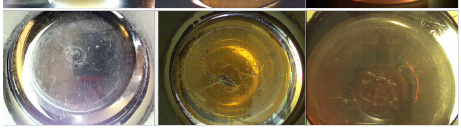
CONTAMINANTS		method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130		**82**	154	58

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130		**2915**	2213	1628
Potassium	ppm	ASTM D6130		**1117**	843	701

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130		**3**	4	5
Magnesium	ppm	ASTM D6130		**2**	<1	0

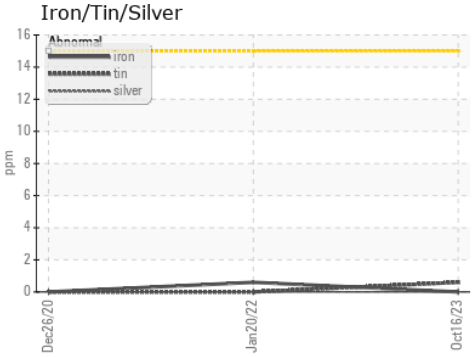
COOLANT REPORT



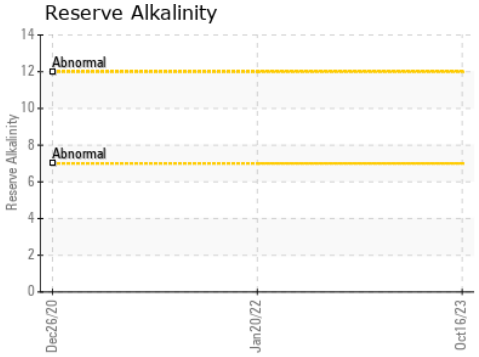
VISUAL		method	limit/base	current	history1	history2
Coolant Color		*Visual		**Brown**	Yllow	Pink
Coolant Appearance		*Visual	Clear	**normal**	normal	normal
Color						
Bottom						

GRAPHS

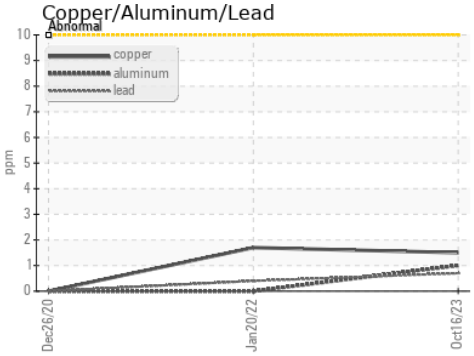
Iron/Tin/Silver



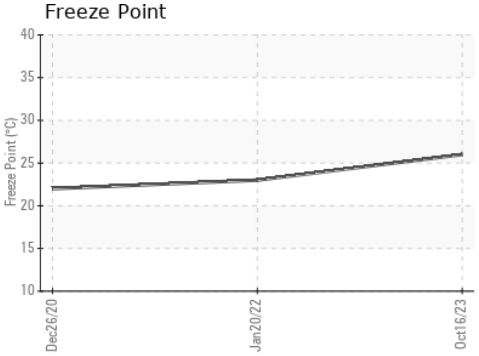
Reserve Alkalinity



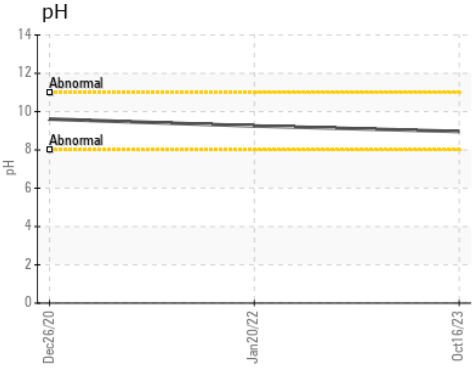
Copper/Aluminum/Lead



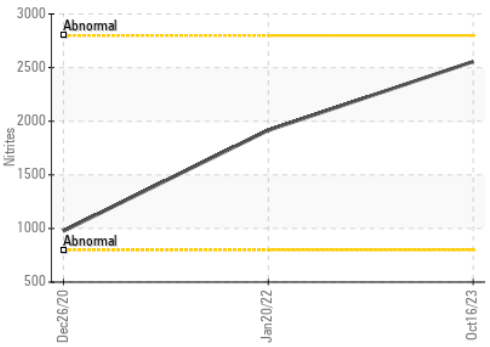
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0735702 **Received** : 06 Nov 2023
Lab Number : 05999509 **Diagnosed** : 15 Nov 2023
Unique Number : 10727869 **Diagnostician** : Doug Bogart
Test Package : COOL- (Additional Tests: COOL, ICP, KF)

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)

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Report Id: MARCAT [WUSCAR] 05999509 (Generated: 11/15/2023 23:32:37) Rev: 1

Submitted By: M/V TEXAS CITY