

COOLANT REPORT

Cranes [450255637]

Crane - Mid Ship Engine Coolant (12 L Tank) (S/N Sample Tag: MA-04002)

Component Coolant

Fluid DETROIT DIESEL POWER COOL PLUS (12 LTR)

DIAGNOSIS

Recommendation

We recommend that you perform a partial drain and top off with straight water to decrease abnormal level of overconcentrated antifreeze. Resample at the next service interval to monitor.

Corrosion

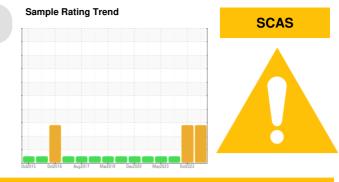
All metal levels are normal indicating no corrosion in the cooling system.

Contaminants

There is no indication of any contamination in the coolant.

Coolant Condition

The reserve alkalinity of this fluid is lower than acceptable. The nitrites levels are too high which leads to additive drop-out and scale formation. The pH level of this fluid is within the acceptable limits.



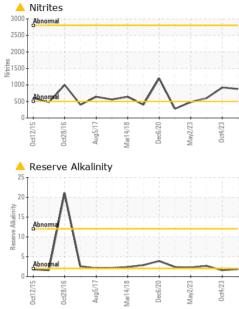
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC0076317	PC	PC0052197
Sample Date		Client Info		20 Jan 2024	04 Oct 2023	14 Jun 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	NORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		1.068	1.067	1.069
рН	Scale 0-14	ASTM D1287*	9.0	8.72	8.59	8.52
Nitrites	ppm	Alcan Test Kit*	0	<u> </u>	9 20	600
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<u> </u>	1 .6	2.7
Percentage Glycol	%	ASTM D3321*	50	50.1	49.2	51.6
Freezing Point	°C	ASTM D3321*	-40	-37	-33	-38
Carboxylate						
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		6	3	10
Phosphorus	ppm	ASTM D5185(m)	0	6	3	24
Boron	ppm	ASTM D5185(m)		12	6	24
Molybdenum	ppm	ASTM D5185(m)		177	173	161
CORROSION		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185(m)	>15	0	0	2
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	0
Copper	ppm	ASTM D5185(m)	>10	0	0	3
Lead	ppm	ASTM D5185(m)	>10	0	0	7
Tin	ppm	ASTM D5185(m)	>10	0	0	2
Silver	ppm	ASTM D5185(m)	>10	<1	<1	0
Zinc	ppm	ASTM D5185(m)		0	0	0
CARRIER SAL	TS	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		5843	5441	2666
Potassium	ppm	ASTM D5185(m)		7942	7573	1966
SCALE POTEN		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)		3	2	7
Vagnesium	ppm	ASTM D5185(m)	>40	3	3	3
Hardness	mg/L CaCO3	In-house*	<75	17	16	27
VISUAL	-	method	limit/base	current	history1	history2
Coolant Color		Visual*	Red	Red	Red	Red
Coolant Appearance		Visual*	Clear	Clear	Clear	Clear
Color						
Bottom						
58·13) Bev: 1				Contact/	ocation: Josh H	

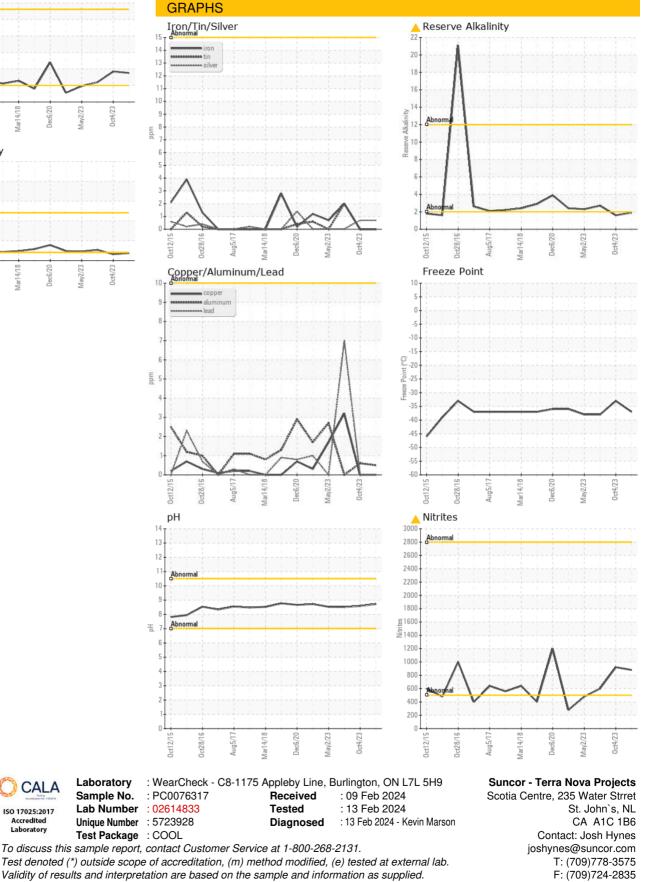
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Contact/Location: Josh Hynes - TERHAM



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6

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