

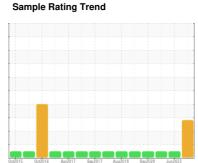
COOLANT REPORT

Cranes [450207986]

Crane - Mid Ship Engine Coolant (62 L Tank) (S/N Sample Tag: MA-04002)

Coolant

DETROIT DIESEL POWER COOL PLUS (62





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

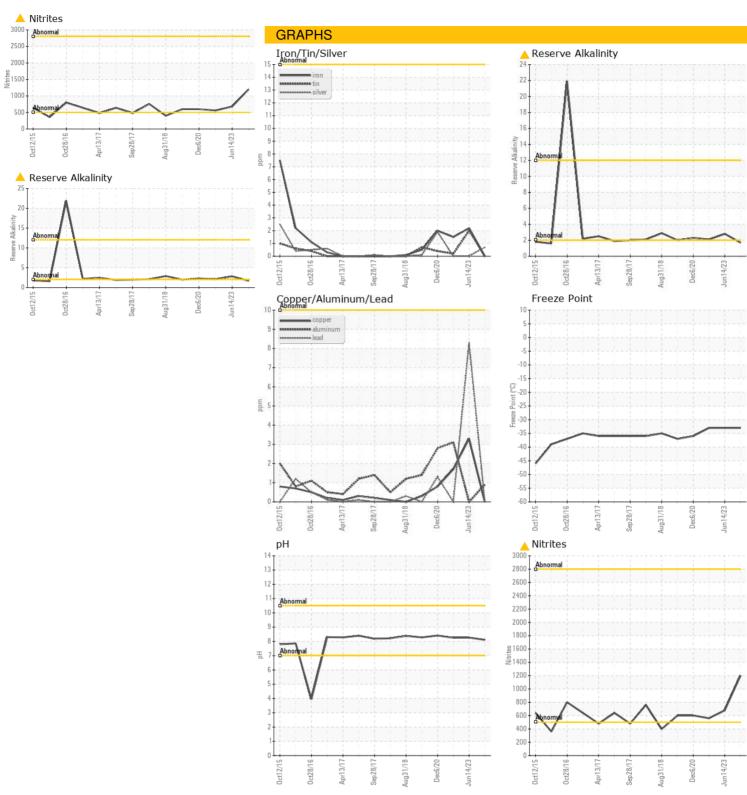
The reserve alkalinity of this fluid is lower than acceptable. The nitrites levels are too high which leads to additive drop-out and scale formation. The pH level of this fluid is within the acceptable limits.

PLTR)		0ct2015 0	ct2016 Apr2017 Sep	Ž017 Aug2018 Dec2020	Jun 2023	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PC	PC0052196	PC0052689
Sample Date		Client Info		04 Oct 2023	14 Jun 2023	02 May 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	NORMAL	NORMAL
PHYSICAL TEST F	RESULTS	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		1.067	1.067	1.067
pH	Scale 0-14	ASTM D1287*	9.0	8.11	8.26	8.25
Nitrites	ppm	Alcan Test Kit*	0	<u> </u>	680	560
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<u> </u>	2.8	2.1
Percentage Glycol	%	ASTM D3321*	50	49.6	49.5	49.6
Freezing Point	°C	ASTM D3321*	-40	-33	-33	-33
Carboxylate						
CORROSION INH	IBITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		10	9	14
Phosphorus	ppm	ASTM D5185(m)	0	20	28	45
Boron	ppm	ASTM D5185(m)		18	32	31
Molybdenum	ppm	ASTM D5185(m)		160	157	198
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	0	2	2
Aluminum	ppm	ASTM D5185(m)		<1	0	3
Copper	ppm	ASTM D5185(m)	>10	0	3	2
Lead	ppm	ASTM D5185(m)	>10	0	8	0
Tin	ppm	ASTM D5185(m)	>10	0	2	<1
Silver	ppm	ASTM D5185(m)	>10	<1	0	0
Zinc	ppm	ASTM D5185(m)		0	0	2
CARRIER SAL	TS	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		5037	2588	2943
Potassium	ppm	ASTM D5185(m)		7368	1961	2871
SCALE POTEN	ITIAL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	4	7	12
Magnesium	ppm	ASTM D5185(m)	>40	2	3	8
Hardness	mg/L CaCO3	In-house*	<75	18	28	62
VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*	Red	Red	Red	Orange
Coolant Appearance		Visual*	Clear	Clear	Clear	Clear
Color						
Bottom						

Contact/Location: Josh Hynes - TERHAM



COOLANT REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number **Unique Number** Test Package : COOL

: PC : 02590145 : 5659211

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 Received : 18 Oct 2023 Diagnosed Diagnostician

: 19 Oct 2023 : Kevin Marson

To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Suncor - Terra Nova Projects Scotia Centre, 235 Water Strret St. John's, NL

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