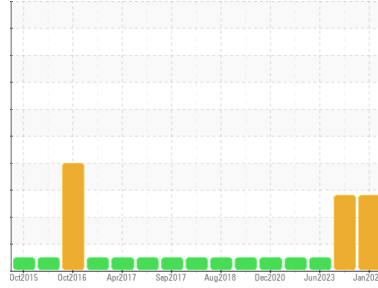


COOLANT REPORT

Sample Rating Trend

SCAS



Area
Cranes [450255637]
Machine Id
Crane - Mid Ship Engine Coolant (62 L Tank) (S/N Sample Tag: MA-04002)
Component
Coolant
Fluid
DETROIT DIESEL POWER COOL PLUS (62 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 INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			PC0080321	PC	PC0052196
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 RESULTS		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*			1.068	1.067	1.067
pH	Scale 0-14	ASTM D1287*	9.0	8.32	8.11	8.26
Nitrites	ppm	Alcan Test Kit*	0	▲ 1000	▲ 1200	680
Reserve Alkalinity	Scale 0-20	ASTM D1121*		▲ 1.9	▲ 1.7	2.8
Percentage Glycol	%	ASTM D3321*	50	50.2	49.6	49.5
Freezing Point	°C	ASTM D3321*	-40	-37	-33	-33
Carboxylate				---	---	---

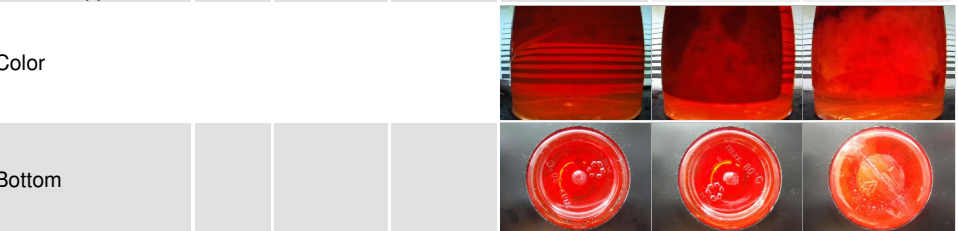
CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		13	10	9
Phosphorus	ppm	ASTM D5185(m)	0	25	20	28
Boron	ppm	ASTM D5185(m)		27	18	32
Molybdenum	ppm	ASTM D5185(m)		159	160	157

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	0	0	2
Aluminum	ppm	ASTM D5185(m)	>10	<1	<1	0
Copper	ppm	ASTM D5185(m)	>10	<1	0	3
Lead	ppm	ASTM D5185(m)	>10	0	0	8
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

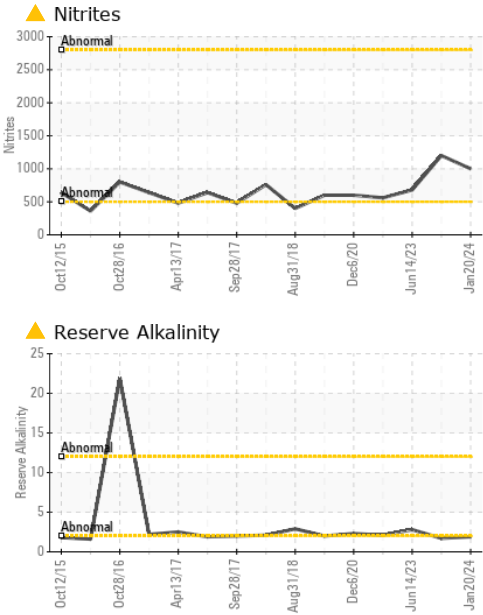
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		5361	5037	2588
Potassium	ppm	ASTM D5185(m)		7527	7368	1961

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	6	4	7
Magnesium	ppm	ASTM D5185(m)	>40	3	2	3
Hardness	mg/L CaCO3	In-house*	<75	25	18	28

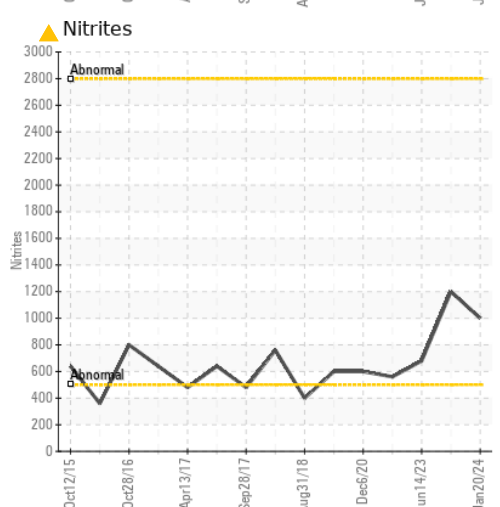
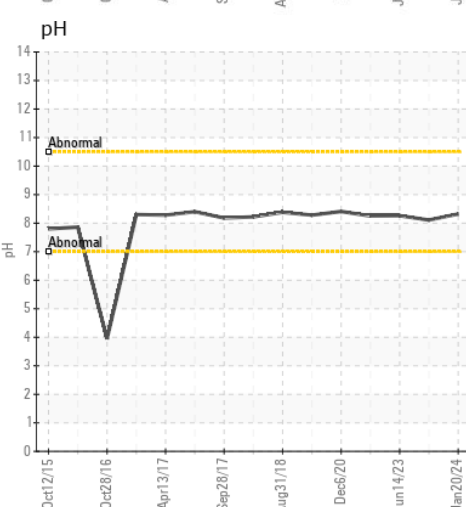
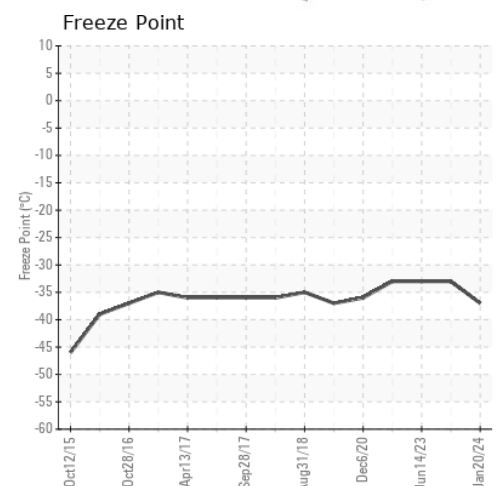
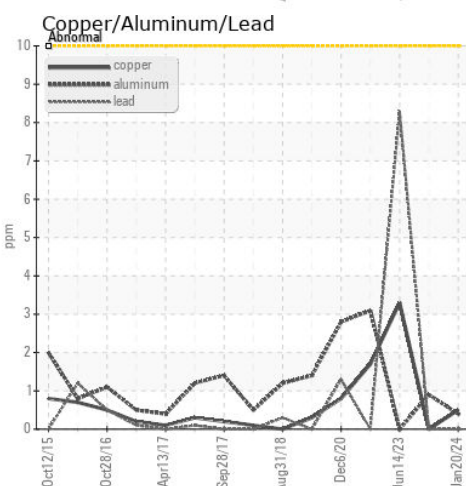
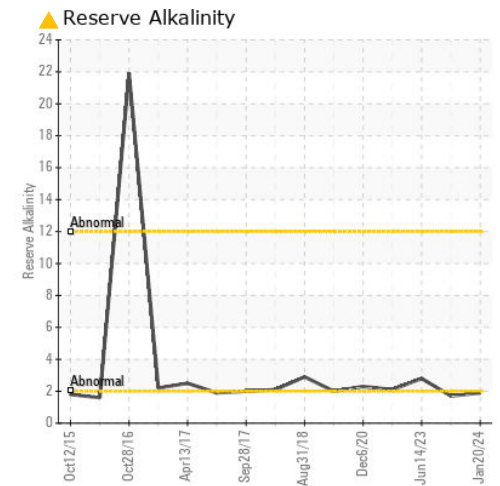
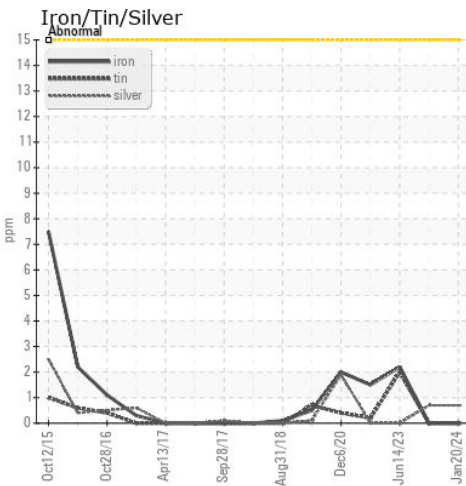
VISUAL		method	limit/base	current	history1	history2
Coolant Color	Visual*	Red		Red	Red	Red
Coolant Appearance	Visual*	Clear		Clear	Clear	Clear



COOLANT REPORT



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC0080321
Lab Number : 02614832
Unique Number : 5723927
Test Package : COOL
Received : 09 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 13 Feb 2024 - Kevin Marson

Suncor - Terra Nova Projects
 Scotia Centre, 235 Water Street
 St. John's, NL
 CA A1C 1B6
 Contact: Josh Hynes
 joshhynes@suncor.com
 T: (709)778-3575
 F: (709)724-2835

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.