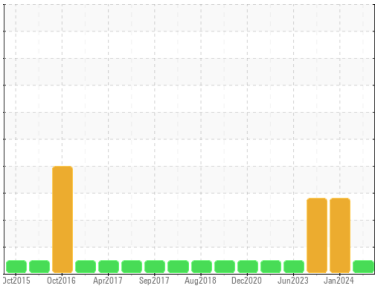
COOLANT REPORT

Sample Rating Trend



NORMAL

Area
Cranes
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
The fluid is suitable for further service. 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 pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PC**	PC0080321	PC
Sample Date		Client Info		**20 Mar 2024**	20 Jan 2024	04 Oct 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				**NORMAL**	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Glycol Type		FT-IR		**UNK**	---	---
Specific Gravity		ASTM D1298*		**1.067**	1.068	1.067
pH	Scale 0-14	ASTM D1287*	9.0	**8.31**	8.32	8.11
Nitrites	ppm	Alcan Test Kit*	0	**400**	▲ 1000	▲ 1200
Reserve Alkalinity	Scale 0-20	ASTM D1121*		**5.3**	▲ 1.9	▲ 1.7
Percentage Glycol	%	ASTM D3321*	50	**49.7**	50.2	49.6
Freezing Point	°C	ASTM D3321*	-40	**-36**	-37	-33
Carboxylate				**---**	---	---

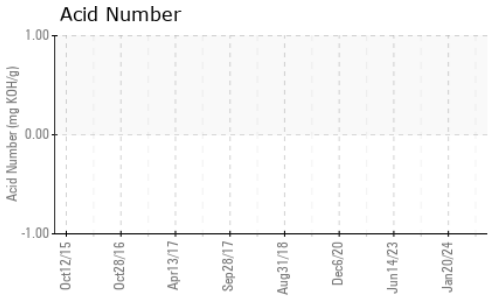
CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**12**	13	10
Phosphorus	ppm	ASTM D5185(m)	0	**30**	25	20
Boron	ppm	ASTM D5185(m)		**62**	27	18
Molybdenum	ppm	ASTM D5185(m)		**154**	159	160

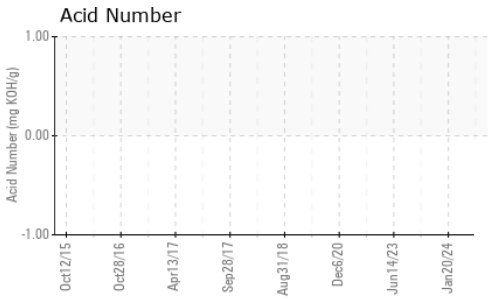
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**0**	0	0
Aluminum	ppm	ASTM D5185(m)	>10	**1**	<1	<1
Copper	ppm	ASTM D5185(m)	>10	**<1**	<1	0
Lead	ppm	ASTM D5185(m)	>10	**0**	0	0
Tin	ppm	ASTM D5185(m)	>10	**0**	0	0
Silver	ppm	ASTM D5185(m)	>10	**<1**	<1	<1
Zinc	ppm	ASTM D5185(m)		**1**	0	0

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**4348**	5361	5037
Potassium	ppm	ASTM D5185(m)		**4044**	7527	7368

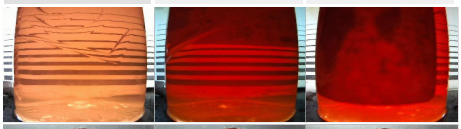
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**6**	6	4
Magnesium	ppm	ASTM D5185(m)	>40	**4**	3	2
Hardness	mg/L CaCO3	In-house*	<75	**29**	25	18

COOLANT REPORT



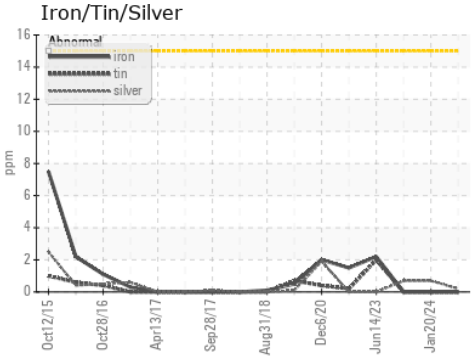


VISUAL

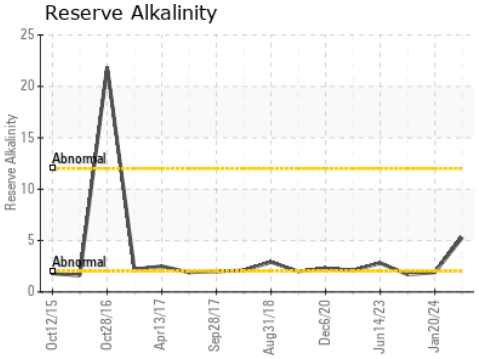
		method	limit/base	current	history1	history2
Coolant Color		Visual*	Red	**Red**	Red	Red
Coolant Appearance		Visual*	Clear	**Clear**	Clear	Clear
Color						
Bottom						

GRAPHS

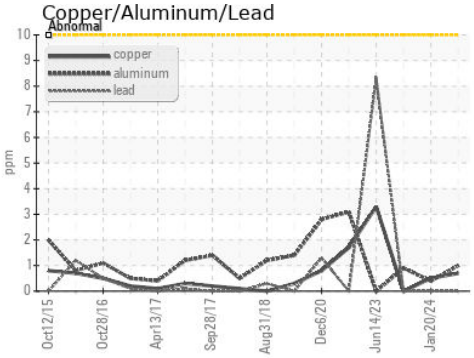
Iron/Tin/Silver



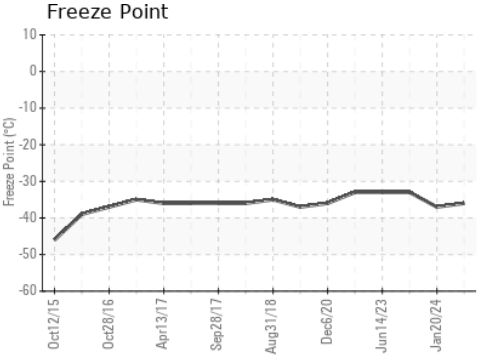
Reserve Alkalinity



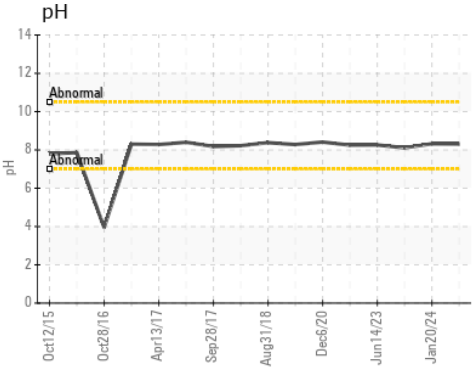
Copper/Aluminum/Lead



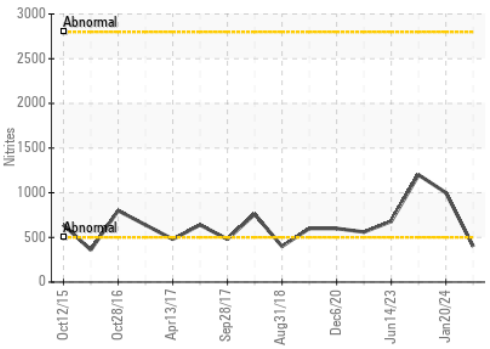
Freeze Point



pH



Nitrites



ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : PC
Lab Number : 02626230
Unique Number : 5759362
Test Package : COOL (Additional Tests: GlycolType, TAN Auto)

Received : 02 Apr 2024
Tested : 03 Apr 2024
Diagnosed : 03 Apr 2024 - 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
CA A1C 1B6
Contact: Josh Hynes
joshynes@suncor.com
T: (709)778-3575
F: (709)724-2835