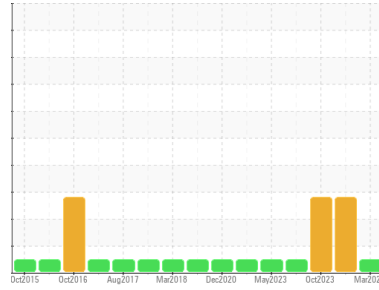


# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area

**Cranes**

Machine Id  
**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

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	<b>PC</b>	PC0076317	PC
Sample Date	Client Info	<b>20 Mar 2024</b>	20 Jan 2024	04 Oct 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>NORMAL</b>	ABNORMAL	ABNORMAL

## PHYSICAL TEST RESULTS

method	limit/base	current	history1	history2
Glycol Type	FT-IR	<b>UNK</b>	---	---
Specific Gravity	ASTM D1298*	<b>1.067</b>	1.068	1.067
pH	Scale 0-14 ASTM D1287* 9.0	<b>8.25</b>	8.72	8.59
Nitrites	ppm Alcan Test Kit* 0	<b>560</b>	▲ 880	▲ 920
Reserve Alkalinity	Scale 0-20 ASTM D1121*	<b>4.9</b>	▲ 1.9	▲ 1.6
Percentage Glycol	% ASTM D3321* 50	<b>49.8</b>	50.1	49.2
Freezing Point	°C ASTM D3321* -40	<b>-36</b>	-37	-33
Carboxylate		<b>---</b>	---	---

## CORROSION INHIBITORS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	<b>12</b>	6	3
Phosphorus	ppm ASTM D5185(m) 0	<b>29</b>	6	3
Boron	ppm ASTM D5185(m)	<b>31</b>	12	6
Molybdenum	ppm ASTM D5185(m)	<b>161</b>	177	173

## CORROSION

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >15	<b>0</b>	0	0
Aluminum	ppm ASTM D5185(m) >10	<b>1</b>	<1	<1
Copper	ppm ASTM D5185(m) >10	<b>&lt;1</b>	0	0
Lead	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Tin	ppm ASTM D5185(m) >10	<b>0</b>	0	0
Silver	ppm ASTM D5185(m) >10	<b>&lt;1</b>	<1	<1
Zinc	ppm ASTM D5185(m)	<b>2</b>	0	0

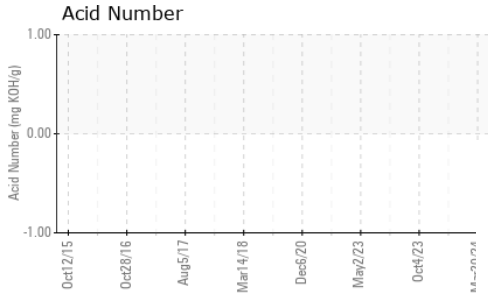
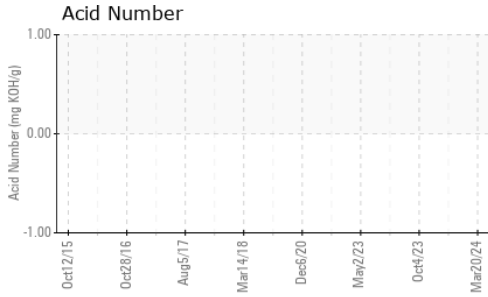
## CARRIER SALTS



method	limit/base	current	history1	history2
Sodium	ppm ASTM D5185(m)	<b>4254</b>	5843	5441
Potassium	ppm ASTM D5185(m)	<b>4301</b>	7942	7573

## SCALE POTENTIAL

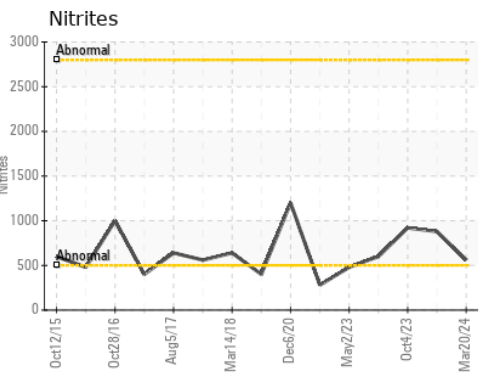
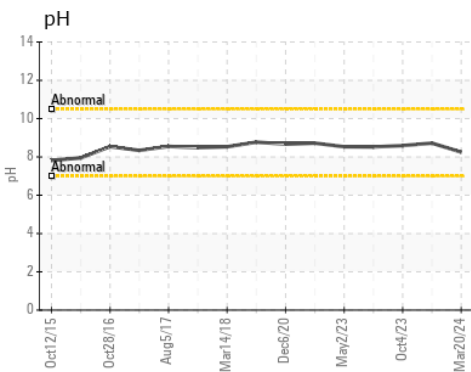
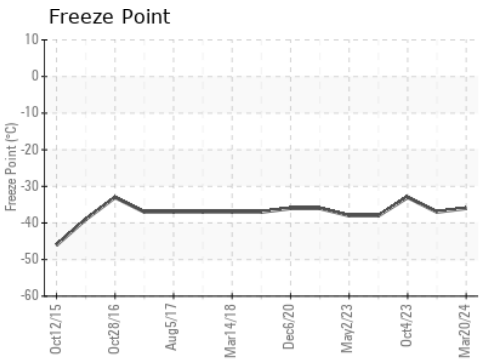
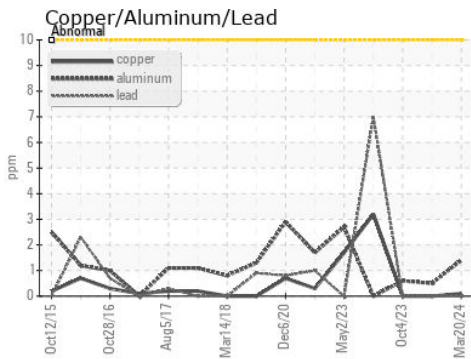
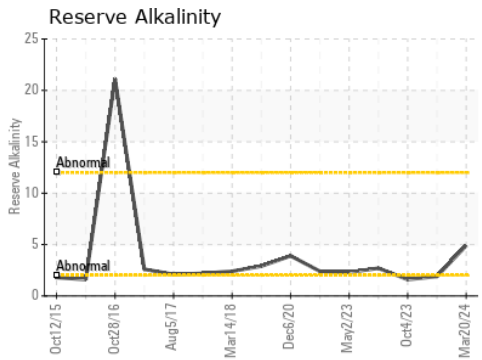
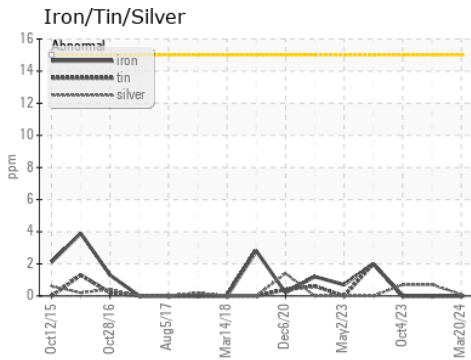
method	limit/base	current	history1	history2
Calcium	ppm ASTM D5185(m) >100	<b>7</b>	3	2
Magnesium	ppm ASTM D5185(m) >40	<b>4</b>	3	3
Hardness	mg/L CaCO3 In-house* <75	<b>35</b>	17	16

# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	Visual*	Red	<b>Red</b>	Red	Red
Coolant Appearance	Visual*	Clear	<b>Clear</b>	Clear	Clear
Color					
Bottom					

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC  
**Lab Number** : **02626231**  
**Unique Number** : 5759363  
**Test Package** : COOL ( Additional Tests: GlycolType, TAN Auto )

**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.*