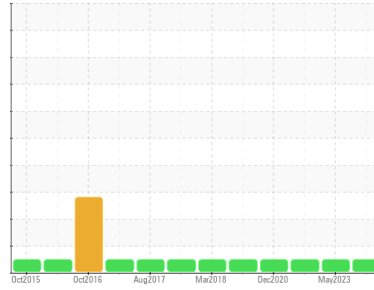


# COOLANT REPORT

Sample Rating Trend



**NORMAL**



Area  
**Cranes [450159533]**  
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	history 1	history 2
Sample Number	Client Info			<b>PC0052197</b>	PC0040550	PC0029524
Sample Date	Client Info			<b>14 Jun 2023</b>	02 May 2023	20 May 2021
Machine Age	hrs	Client Info		<b>0</b>	0	0
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history 1	history 2
Specific Gravity	ASTM D1298*			<b>1.069</b>	1.069	1.067
pH	Scale 0-14	ASTM D1287*	9.0	<b>8.52</b>	8.53	8.72
Nitrites	ppm	Alcan Test Kit*	0	<b>600</b>	480	280
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>2.7</b>	2.3	2.4
Percentage Glycol	%	ASTM D3321*	50	<b>51.6</b>	51.7	50.0
Freezing Point	°C	ASTM D3321*	-40	<b>-38</b>	-38	-36
Carboxylate				<b>---</b>	---	---

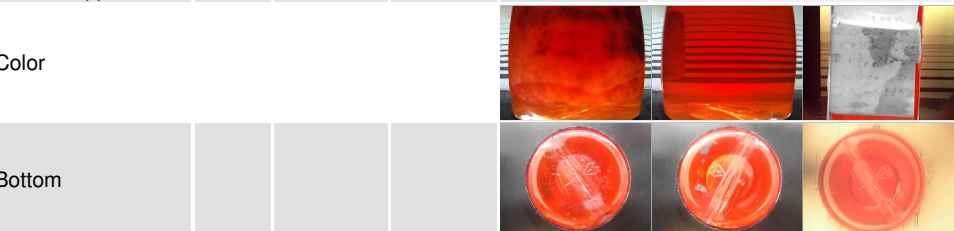
CORROSION INHIBITORS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)		<b>10</b>	18	5
Phosphorus	ppm	ASTM D5185(m)	0	<b>24</b>	47	11
Boron	ppm	ASTM D5185(m)		<b>24</b>	49	17
Molybdenum	ppm	ASTM D5185(m)		<b>161</b>	203	207

CORROSION		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>15	<b>2</b>	<1	1
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	3	2
Copper	ppm	ASTM D5185(m)	>10	<b>3</b>	2	<1
Lead	ppm	ASTM D5185(m)	>10	<b>7</b>	0	1
Tin	ppm	ASTM D5185(m)	>10	<b>2</b>	0	<1
Silver	ppm	ASTM D5185(m)	>10	<b>0</b>	0	0
Zinc	ppm	ASTM D5185(m)		<b>0</b>	2	<1

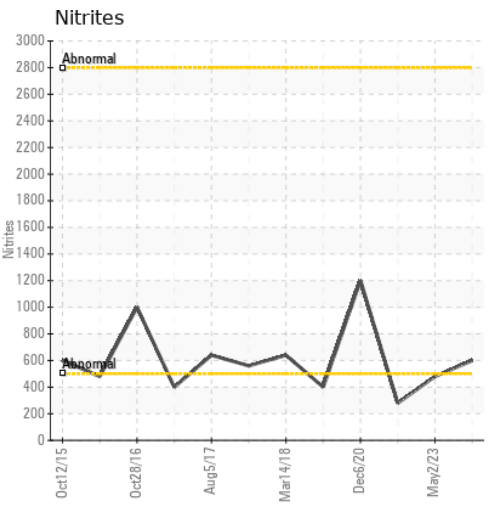
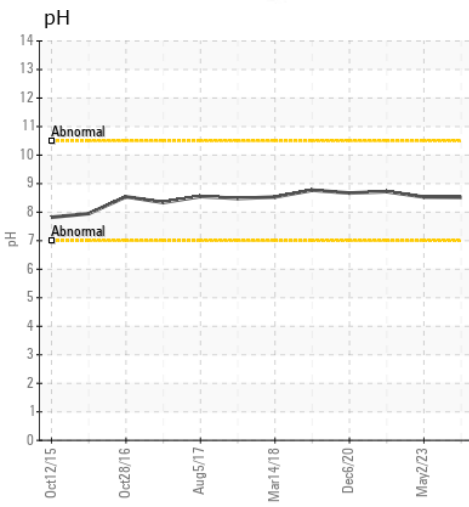
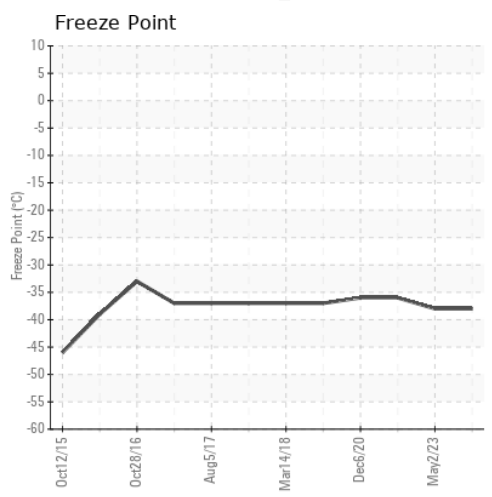
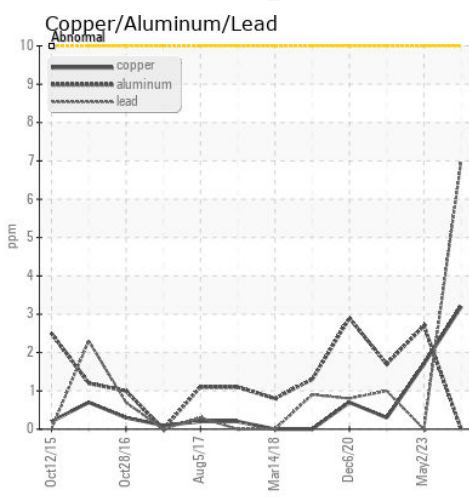
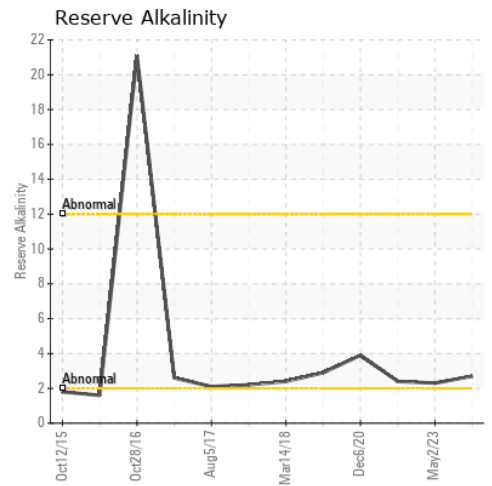
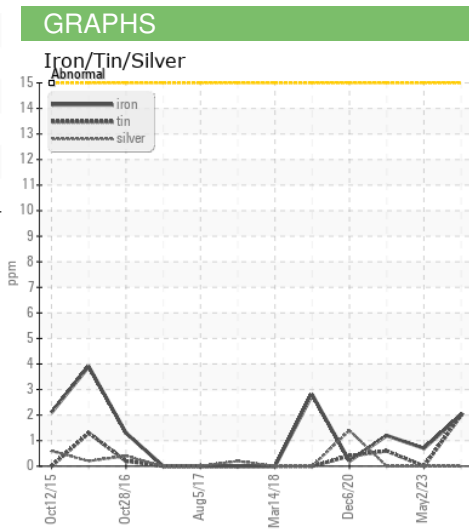
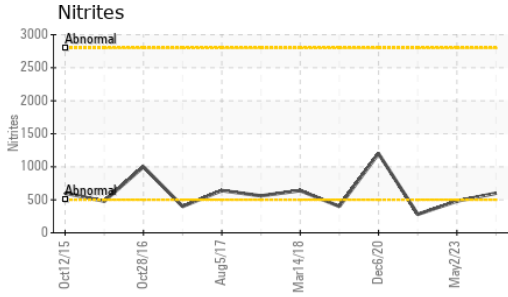
CARRIER SALTS		method	limit/base	current	history 1	history 2
Sodium	ppm	ASTM D5185(m)		<b>2666</b>	3018	2779
Potassium	ppm	ASTM D5185(m)		<b>1966</b>	2875	3459

SCALE POTENTIAL		method	limit/base	current	history 1	history 2
Calcium	ppm	ASTM D5185(m)	>100	<b>7</b>	8	5
Magnesium	ppm	ASTM D5185(m)	>40	<b>3</b>	7	5
Hardness	mg/L CaCO3	In-house*	<75	<b>27</b>	45	---

VISUAL		method	limit/base	current	history 1	history 2
Coolant Color	Visual*	Red		<b>Red</b>	Orange	Red
Coolant Appearance	Visual*	Clear		<b>Clear</b>	Clear	Clear



# COOLANT REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0052197  
**Lab Number** : 02568355  
**Unique Number** : 5605401  
**Test Package** : COOL

**Received** : 06 Jul 2023  
**Diagnosed** : 07 Jul 2023  
**Diagnostician** : Kevin Marson

**Suncor - Terra Nova Projects**  
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 St. John's, NL  
 CA A1C 1B6  
 Contact: Josh Hynes  
 joshynes@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.