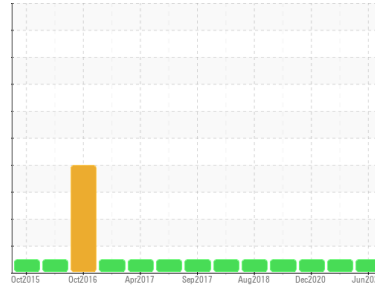


# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Area  
**Cranes [450159533]**  
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	history 1	history 2
Sample Number	Client Info			<b>PC0052196</b>	PC0052689	WC0029610
Sample Date	Client Info			<b>14 Jun 2023</b>	02 May 2023	06 Dec 2020
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>1.067</b>	1.067	1.067
pH	Scale 0-14	ASTM D1287*	9.0	<b>8.26</b>	8.25	8.41
Nitrites	ppm	Alcan Test Kit*	0	<b>680</b>	560	600
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>2.8</b>	2.1	2.3
Percentage Glycol	%	ASTM D3321*	50	<b>49.5</b>	49.6	50.0
Freezing Point	°C	ASTM D3321*	-40	<b>-33</b>	-33	-36
Carboxylate				---	---	---

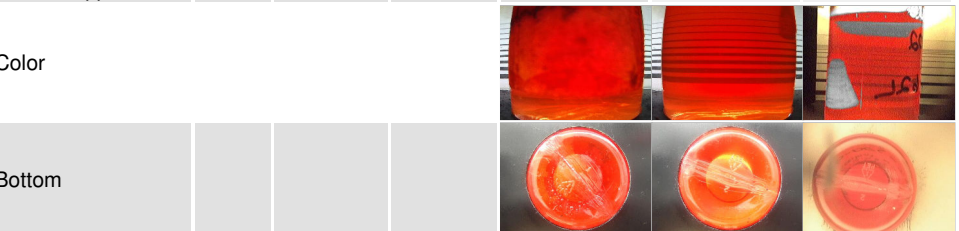
CORROSION INHIBITORS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185(m)		<b>9</b>	14	10
Phosphorus	ppm	ASTM D5185(m)	0	<b>28</b>	45	63
Boron	ppm	ASTM D5185(m)		<b>32</b>	31	39
Molybdenum	ppm	ASTM D5185(m)		<b>157</b>	198	193

CORROSION		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185(m)	>15	<b>2</b>	2	2
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	3	3
Copper	ppm	ASTM D5185(m)	>10	<b>3</b>	2	<1
Lead	ppm	ASTM D5185(m)	>10	<b>8</b>	0	1
Tin	ppm	ASTM D5185(m)	>10	<b>2</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>10	<b>0</b>	0	2
Zinc	ppm	ASTM D5185(m)		<b>0</b>	2	3

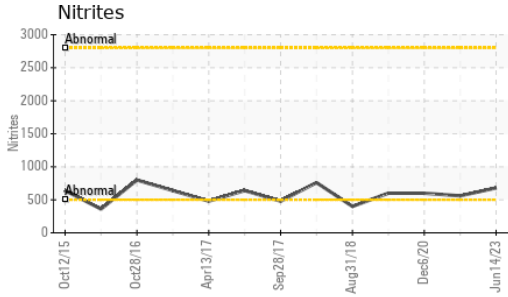
CARRIER SALTS		method	limit/base	current	history 1	history 2
Sodium	ppm	ASTM D5185(m)		<b>2588</b>	2943	2883
Potassium	ppm	ASTM D5185(m)		<b>1961</b>	2871	3833

SCALE POTENTIAL		method	limit/base	current	history 1	history 2
Calcium	ppm	ASTM D5185(m)	>100	<b>7</b>	12	5
Magnesium	ppm	ASTM D5185(m)	>40	<b>3</b>	8	4
Hardness	mg/L CaCO3	In-house*	<75	<b>28</b>	62	---

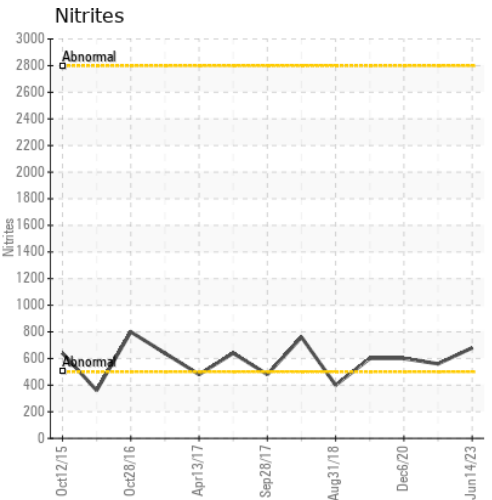
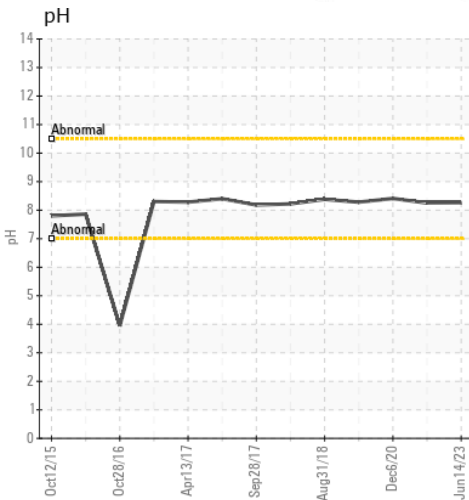
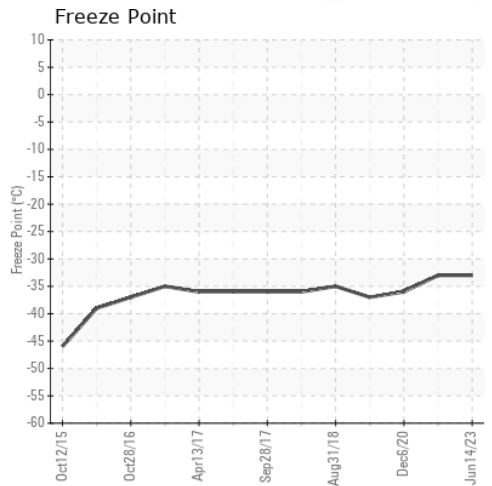
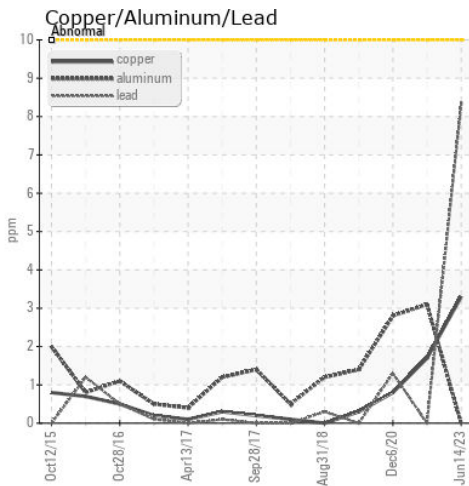
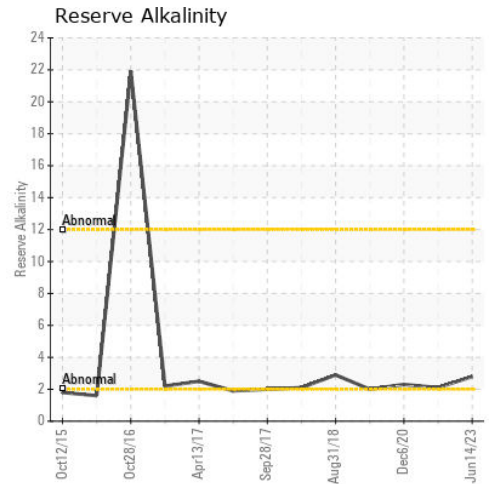
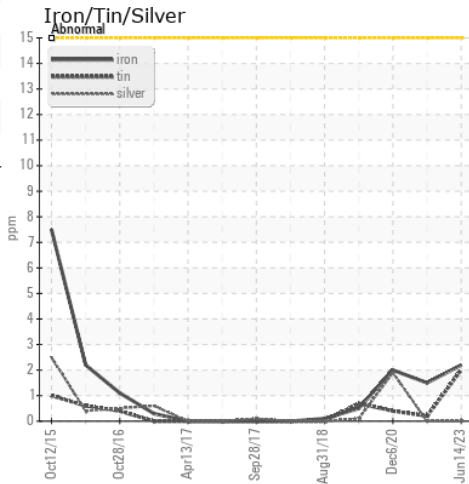
VISUAL		method	limit/base	current	history 1	history 2
Coolant Color	Visual*	Red		<b>Red</b>	Orange	Orange
Coolant Appearance	Visual*	Clear		<b>Clear</b>	Clear	Clear



# COOLANT REPORT



## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0052196 **Received** : 06 Jul 2023  
**Lab Number** : **02568354** **Diagnosed** : 07 Jul 2023  
**Unique Number** : 5605400 **Diagnostician** : Kevin Marson  
**Test Package** : COOL

**Suncor - Terra Nova Projects**  
 Scotia Centre, 235 Water Street  
 St. John's, NL  
 CA A1C 1B6  
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 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.