



# COOLANT REPORT

Sample Rating Trend

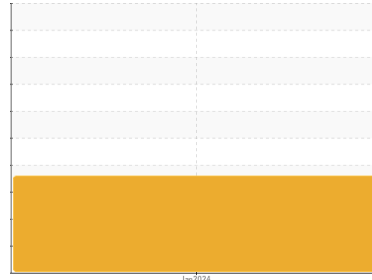
INSOLUBLES



Machine Id  
**CJ553535**

Component  
**Coolant**

Fluid  
**EXTENDED LIFE COOLANT (--- GAL)**



## DIAGNOSIS

### Recommendation

Clean cooling system with an acid-based cleaner according to directions, and flush with water afterwards thoroughly. Refill with 50/50 premix of manufacturer recommended coolant. Resample in 30 days.

### Corrosion

All metal levels are normal indicating no corrosion in the cooling system.

### Contaminants

Hardness is critically elevated. Elevated hardness can allow scale formation that will reduce cooling system effectiveness. The sample contained a visible layer of foreign fluid contaminant, the origin and/or type of fluid is unknown.

### Coolant Condition

The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The nitrite level is acceptable. 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>WC0853063</b>	---	---
Sample Date	Client Info		<b>12 Jan 2024</b>	---	---
Machine Age	kms	Client Info	<b>190536</b>	---	---
Oil Age	kms	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*		<b>1.050</b>	---	---
pH	Scale 0-14	ASTM D1287* 9.0	<b>7.39</b>	---	---
Nitrites	ppm	Alcan Test Kit*	<b>720</b>	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	<b>2.2</b>	---	---
Percentage Glycol	%	ASTM D3321* 50	<b>37.4</b>	---	---
Freezing Point	°C	ASTM D3321* -40	<b>-7</b>	---	---
Carboxylate			---	---	---

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>35</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	<b>26</b>	---	---
Boron	ppm	ASTM D5185(m)	<b>227</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	<b>134</b>	---	---

## CORROSION

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

## CARRIER SALTS

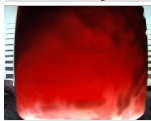

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	<b>4244</b>	---	---
Potassium	ppm	ASTM D5185(m)	<b>497</b>	---	---

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m) >100	<b>54</b>	---	---
Magnesium	ppm	ASTM D5185(m) >40	<b>5</b>	---	---
Hardness	mg/L CaCO3	In-house* <75	<b>156</b>	---	---

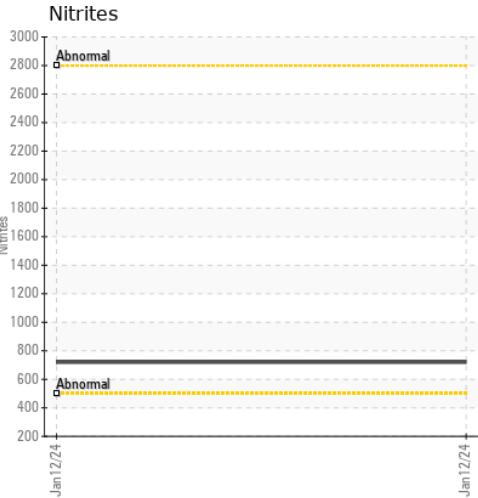
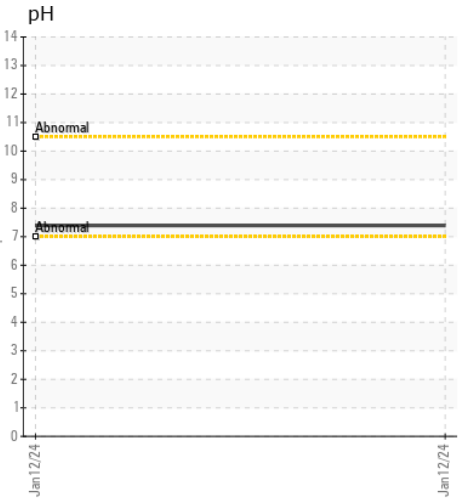
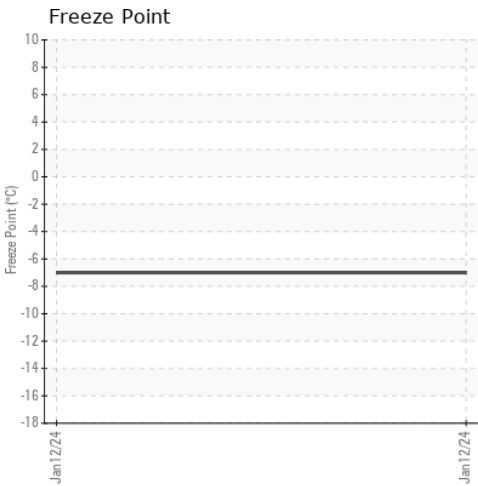
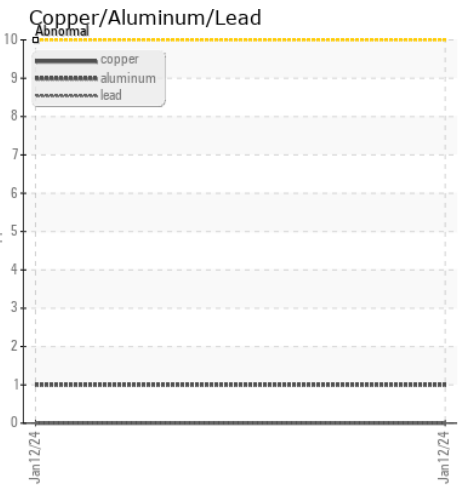
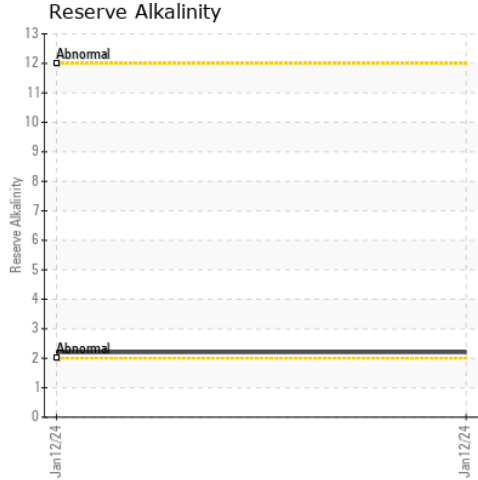
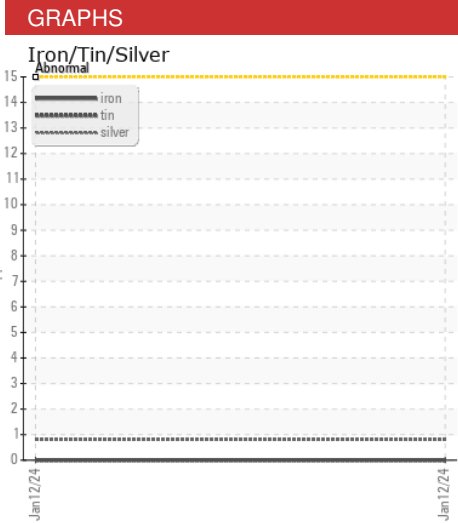
## VISUAL

	method	limit/base	current	history1	history2
Coolant Color	Visual*	Orange/R	<b>Red</b>	---	---
Coolant Appearance	Visual*	Clear	<b>▲ Cloudy</b>	---	---

Color				no image	no image
Bottom				no image	no image



# COOLANT REPORT



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0853063 **Received** : 17 Jan 2024  
**Lab Number** : 02609549 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 5710635 **Diagnostician** : Kevin Marson  
**Test Package** : COOL

**Rush Truck Centres**  
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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.