

# COOLANT REPORT

Sample Rating Trend



**WEAR**



Area  
**THE STATE GROUP [174787]**  
Machine Id  
**526106210 GEN RED 902**  
Component  
**Coolant**  
Fluid  
**HYBRID (HOAT) COOLANT (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. We recommend an early resample to monitor this condition.

### ▲ Corrosion

Copper, iron and tin ppm levels are abnormal. The iron level is high indicating rust in the system which clogs the cooling system. The high metal levels indicate corrosion in the system.

### Contaminants

There is no indication of any contamination in the coolant.

### Coolant Condition

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>WA0020279</b>	---	---
Sample Date	Client Info			<b>11 Sep 2023</b>	---	---
Machine Age	yrs	Client Info		<b>0</b>	---	---
Oil Age	yrs	Client Info		<b>5</b>	---	---
Oil Changed	Client Info			<b>Not Changed</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*			<b>1.068</b>	---	---
pH	Scale 0-14	ASTM D1287*		<b>8.58</b>	---	---
Nitrites	ppm	Alcan Test Kit*		<b>1120</b>	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>2.6</b>	---	---
Percentage Glycol	%	ASTM D3321*		<b>50.5</b>	---	---
Freezing Point	°C	ASTM D3321*		<b>-35</b>	---	---
Carboxylate				---	---	---

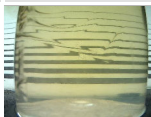

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<b>19</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>6</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>201</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	---	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	<b>▲ 15</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185(m)	>10	<b>▲ 25</b>	---	---
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>▲ 28</b>	---	---
Silver	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>23</b>	---	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		<b>2142</b>	---	---
Potassium	ppm	ASTM D5185(m)		<b>72</b>	---	---

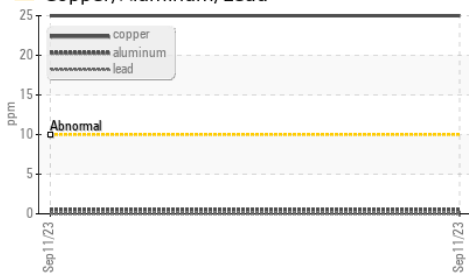
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	<b>3</b>	---	---
Magnesium	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	---	---
Hardness	mg/L CaCO3	In-house*	<75	<b>8</b>	---	---

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

Color			no image	no image
Bottom			no image	no image

# COOLANT REPORT

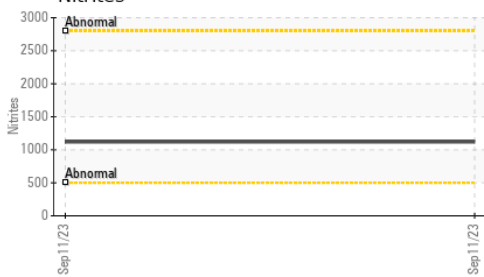
▲ Copper/Aluminum/Lead



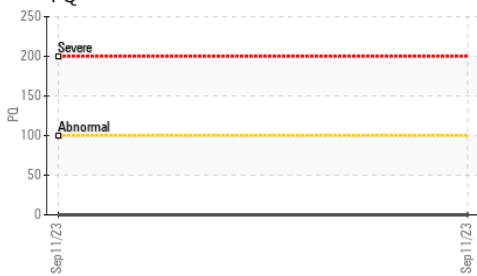
▲ Iron/Tin/Silver



Nitrites

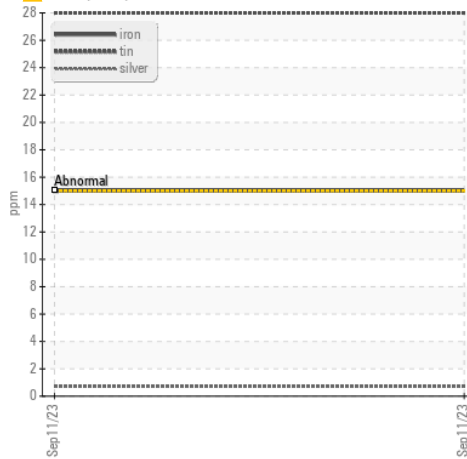


PQ

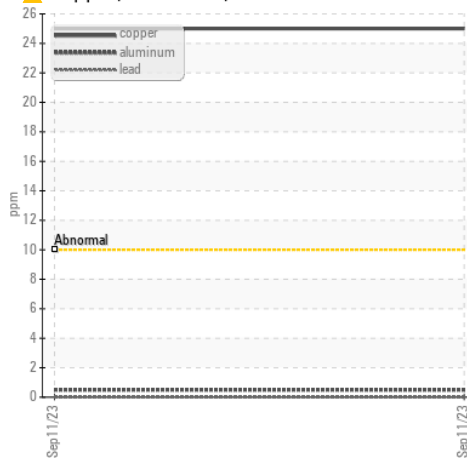


## GRAPHS

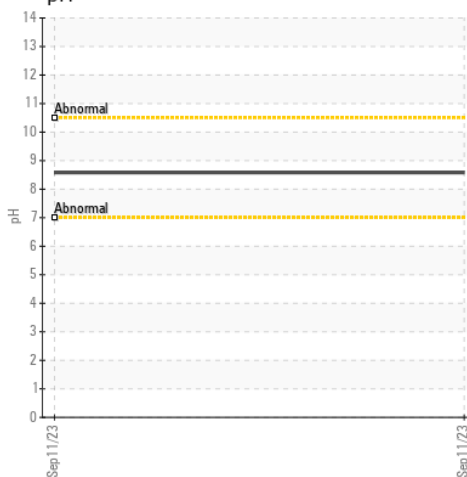
▲ Iron/Tin/Silver



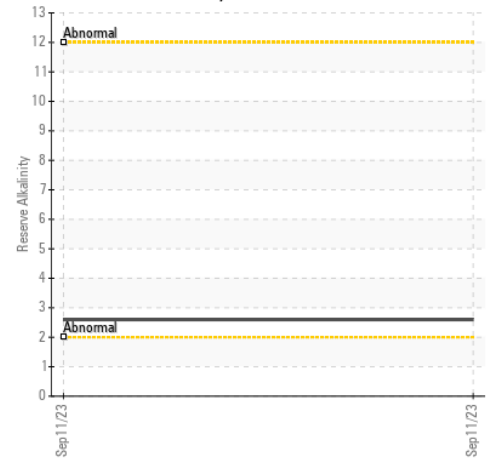
▲ Copper/Aluminum/Lead



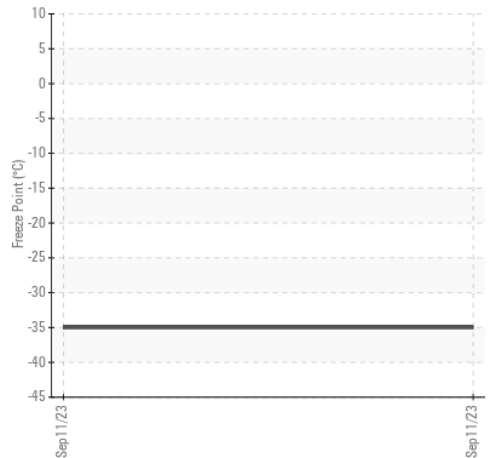
pH



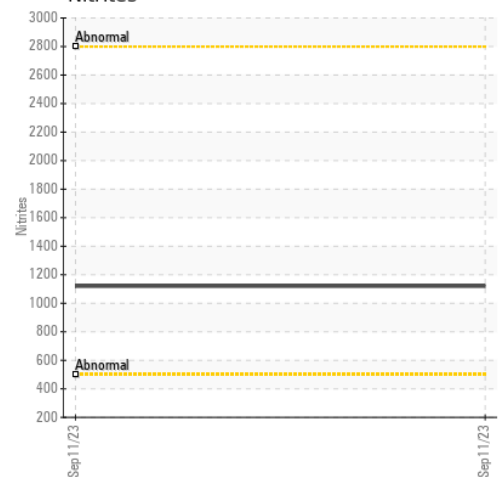
Reserve Alkalinity



Freeze Point



Nitrites



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0020279 **Received** : 04 Oct 2023  
**Lab Number** : 02586932 **Tested** : 05 Oct 2023  
**Unique Number** : 5655998 **Diagnosed** : 05 Oct 2023 - Kevin Marson  
**Test Package** : COOL ( Additional Tests: PQ )

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 Toronto, ON  
 CA M8W 2T8  
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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.