



# COOLANT REPORT

Sample Rating Trend

OFF SPEC



Machine Id  
**VOLVO VNM NN319030**  
Component  
**Coolant**  
Fluid  
**EXTENDED LIFE COOLANT (--- GAL)**



## DIAGNOSIS

### Recommendation

We recommend that you drain the system and refill with a 50/50 long-life coolant/water mixture. We recommend an early resample to monitor this condition.

### Corrosion

Copper ppm levels are abnormal. The high metal levels indicate corrosion in the system.

### Contaminants

There is no indication of any contamination in the component(unconfirmed).

### 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 glycol level is too high which leads to over-heating and additive drop-out. 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>WC0818936</b>	---	---
Sample Date	Client Info			<b>19 Dec 2023</b>	---	---
Machine Age	kms	Client Info		<b>169753</b>	---	---
Oil Age	kms	Client Info		<b>0</b>	---	---
Oil Changed	Client Info			<b>N/A</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*			<b>1.104</b>	---	---
pH	Scale 0-14	ASTM D1287*	9.0	<b>7.58</b>	---	---
Nitrites	ppm	Alcan Test Kit*		<b>800</b>	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>6.0</b>	---	---
Percentage Glycol	%	ASTM D3321*	50	<b>83.9</b>	---	---
Freezing Point	°C	ASTM D3321*	-40	<b>-41</b>	---	---
Carboxylate				---	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		<b>6</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>9</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>10</b>	---	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>10	<b>10</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>1</b>	---	---
Zinc	ppm	ASTM D5185(m)		<b>2</b>	---	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		<b>159</b>	---	---
Potassium	ppm	ASTM D5185(m)		<b>36674</b>	---	---

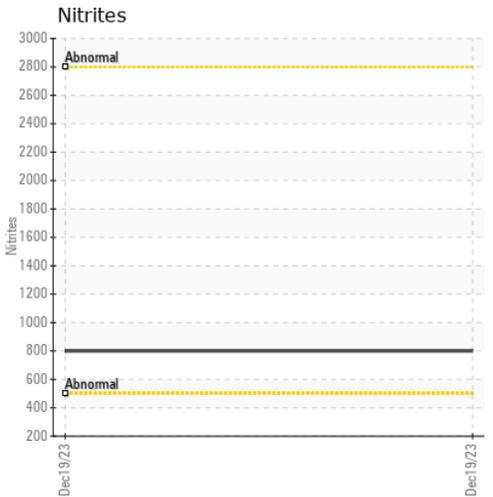
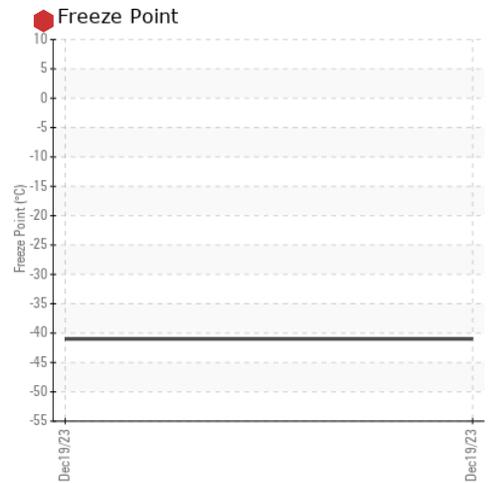
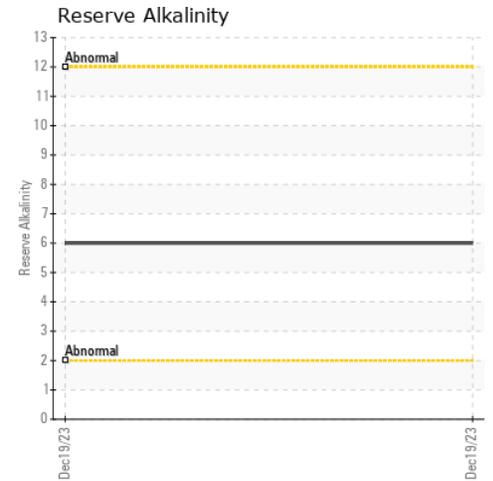
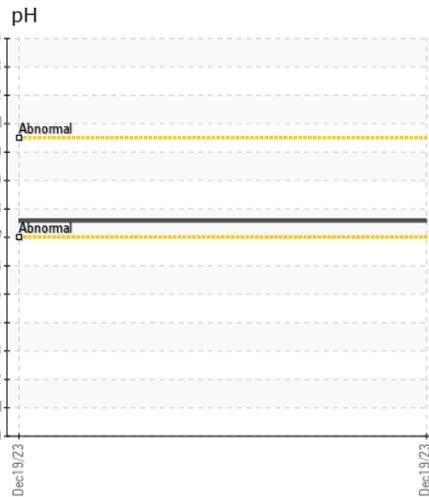
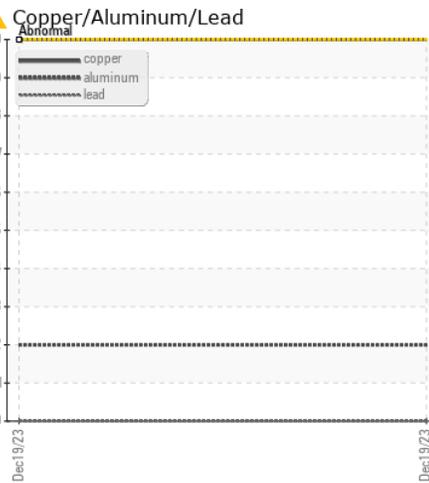
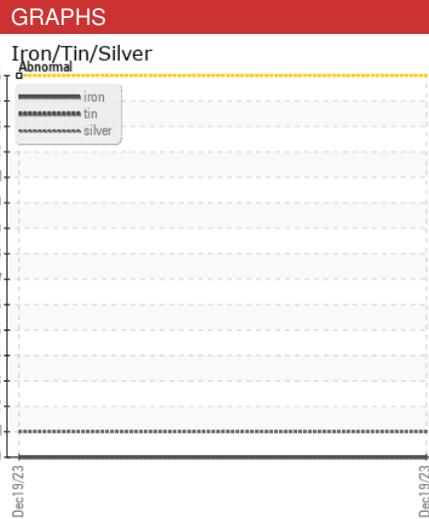
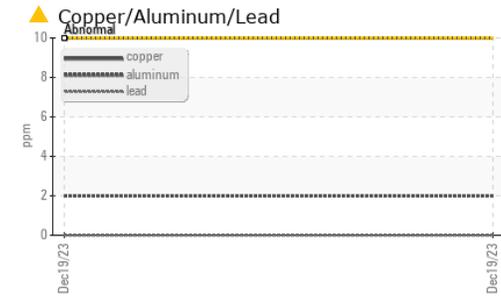
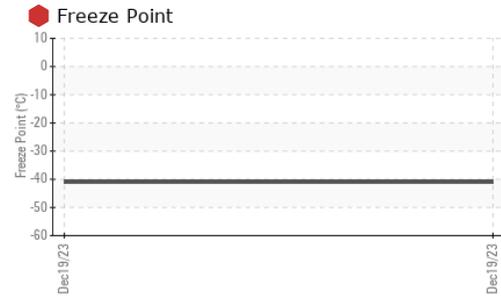
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	<b>14</b>	---	---
Magnesium	ppm	ASTM D5185(m)	>40	<b>6</b>	---	---
Hardness	mg/L CaCO3	In-house*	<75	<b>59</b>	---	---

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.** : WC0818936 **Received** : 21 Dec 2023  
**Lab Number** : 02604763 **Diagnosed** : 22 Dec 2023  
**Unique Number** : 5697848 **Diagnostician** : Kevin Marson  
**Test Package** : COOL

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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.