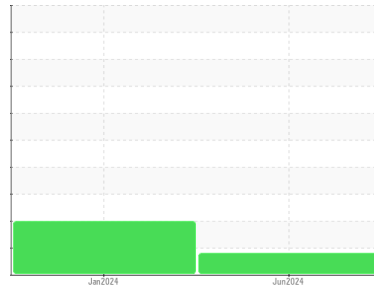




# COOLANT REPORT

### Sample Rating Trend



**WEAR**



Machine Id

**MERCEDES C5-B**

Component

**Coolant**

Fluid

**VALVOLINE ZEREX G-05 ANTI-FREEZE (--- 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 ppm levels are abnormal. 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>WC0940242</b>	WC0891336	---
Sample Date	Client Info		<b>11 Jun 2024</b>	03 Jan 2024	---
Machine Age	hrs	Client Info	<b>0</b>	0	---
Oil Age	hrs	Client Info	<b>0</b>	0	---
Oil Changed	Client Info		<b>N/A</b>	N/A	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

### PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		<b>UNK</b>	---	---
Specific Gravity	ASTM D1298*	1.060	<b>1.070</b>	1.072	---
pH	Scale 0-14	ASTM D1287*	<b>7.31</b>	▲ 7.17	---
Nitrites	ppm	Alcan Test Kit*	<b>1600</b>	920	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	<b>7.0</b>	7.1	---
Percentage Glycol	%	ASTM D3321*	<b>52.5</b>	53.8	---
Freezing Point	°C	ASTM D3321*	<b>-40</b>	-43	---
Carboxylate			<b>---</b>	---	---

### CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	<b>240</b>	45	50
Phosphorus	ppm	ASTM D5185(m)	<b>0</b>	22	13
Boron	ppm	ASTM D5185(m)	<b>1443</b>	1662	---
Molybdenum	ppm	ASTM D5185(m)	<b>0</b>	0	---

### CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	<b>0</b>	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>1</b>	3
Copper	ppm	ASTM D5185(m)	>10	▲ <b>16</b>	▲ 81
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	<1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0
Silver	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1
Zinc	ppm	ASTM D5185(m)		<b>2</b>	1

### CARRIER SALTS

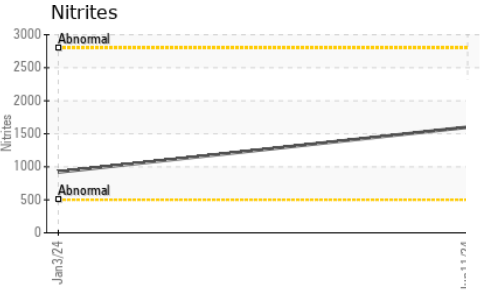
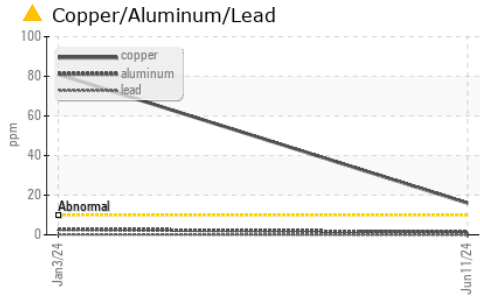
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		<b>7637</b>	9693
Potassium	ppm	ASTM D5185(m)		<b>192</b>	509

### SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	<b>4</b>	5
Magnesium	ppm	ASTM D5185(m)	>40	<b>1</b>	2
Hardness	mg/L CaCO3	In-house*	<75	<b>15</b>	21

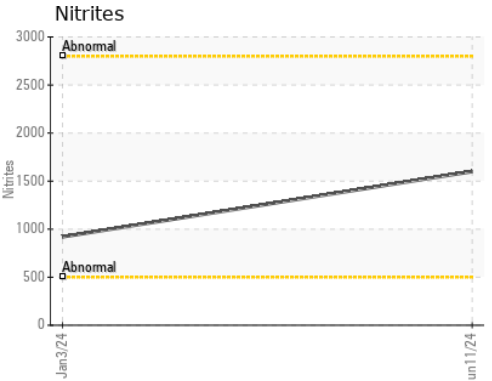
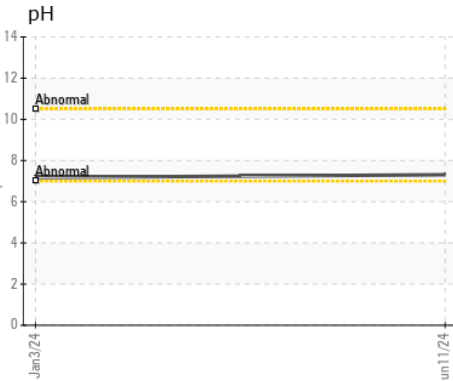
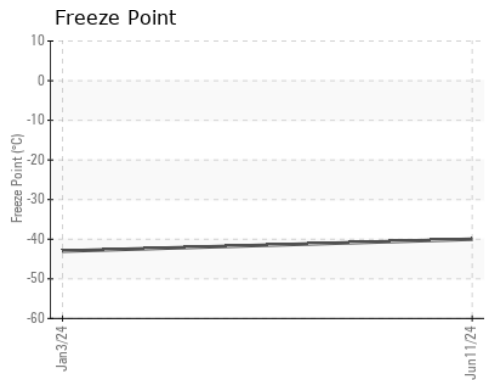
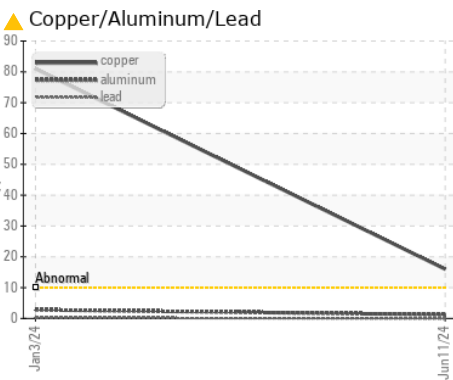
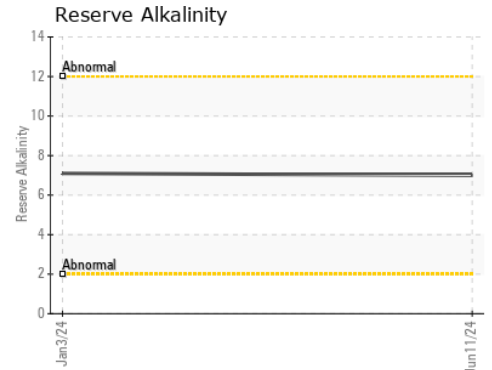
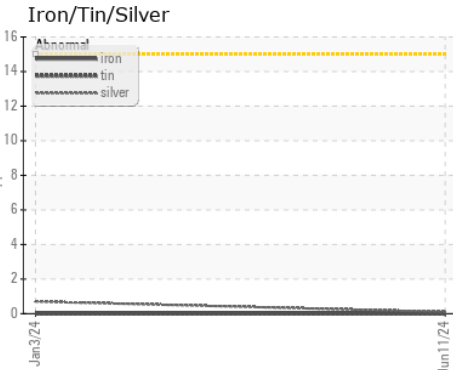


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	Visual*	Yello	<b>Yellow</b>	Green	---
Coolant Appearance	Visual*	Clear	<b>Clear</b>	Clear	---
Color					no image
Bottom					no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0940242      **Received** : 13 Jun 2024  
**Lab Number** : **02641861**      **Tested** : 14 Jun 2024  
**Unique Number** : 5799400      **Diagnosed** : 14 Jun 2024 - Kevin Marson  
**Test Package** : COOL ( Additional Tests: GlycolType )

**TransitNext M&R Inc**  
 3110 Albion Road North  
 Ottawa, ON  
 CA K1V 9V9  
 Contact: Glenn Skilton  
 Glenn.Skilton@atkinsrealis.com  
 T: (613)907-7100  
 F:

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.