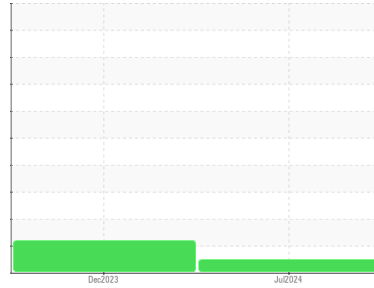




COOLANT REPORT

Sample Rating Trend



NORMAL



Machine Id

Alstom C9-A

Component

Reservoir Coolant

Fluid

VALVOLINE ZEREX G-05 ANTI-FREEZE (--- GAL)

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 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		WC0955155	WC0891331	---
Sample Date	Client Info		04 Jul 2024	19 Dec 2023	---
Machine Age	hrs	Client Info	3237	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			NORMAL	ABNORMAL	---

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	ASTM D1298*	1.060	1.073	▲ 1.074	---
pH	Scale 0-14	ASTM D1287*	7.29	7.46	---
Nitrites	ppm	Alcan Test Kit*	1240	1040	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	7.3	7.7	---
Percentage Glycol	%	ASTM D3321*	54.1	55.1	---
Freezing Point	°C	ASTM D3321*	-43	-47	---
Carboxylate			---	---	---

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	56	49	---
Phosphorus	ppm	ASTM D5185(m)	17	14	---
Boron	ppm	ASTM D5185(m)	1571	1717	---
Molybdenum	ppm	ASTM D5185(m)	0	0	---

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	0	0	---
Aluminum	ppm	ASTM D5185(m)	2	1	---
Copper	ppm	ASTM D5185(m)	4	▲ 42	---
Lead	ppm	ASTM D5185(m)	0	0	---
Tin	ppm	ASTM D5185(m)	0	0	---
Silver	ppm	ASTM D5185(m)	0	<1	---
Zinc	ppm	ASTM D5185(m)	1	0	---

CARRIER SALTS

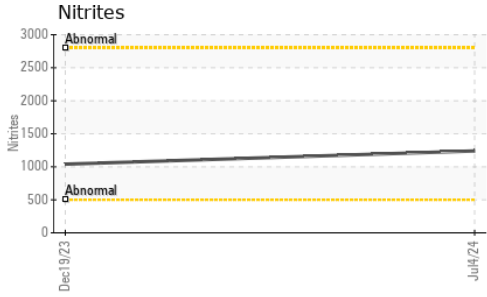
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	6320	10500	---
Potassium	ppm	ASTM D5185(m)	185	612	---

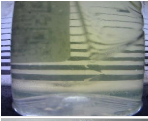



SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	8	3	---
Magnesium	ppm	ASTM D5185(m)	3	3	---
Hardness	mg/L CaCO3	In-house*	29	19	---

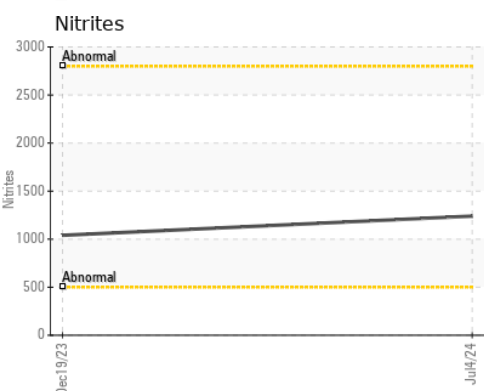
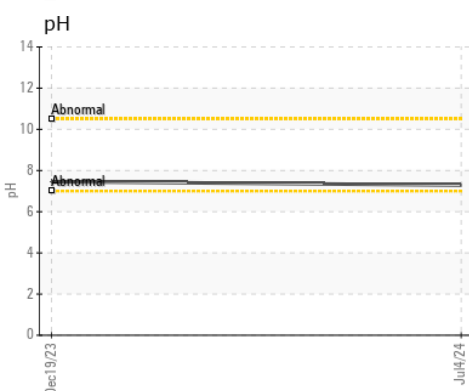
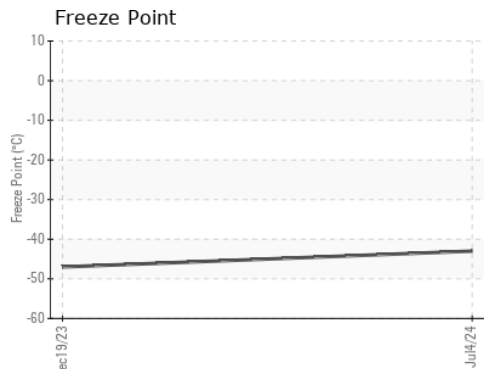
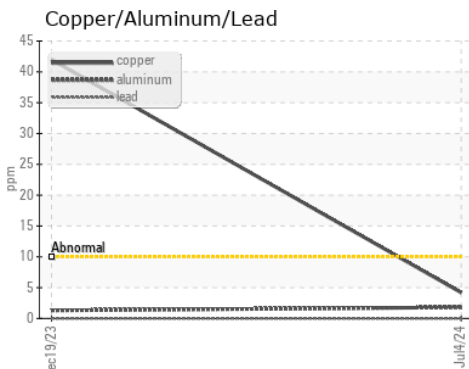
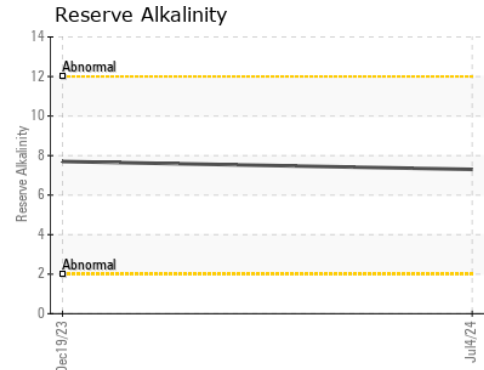
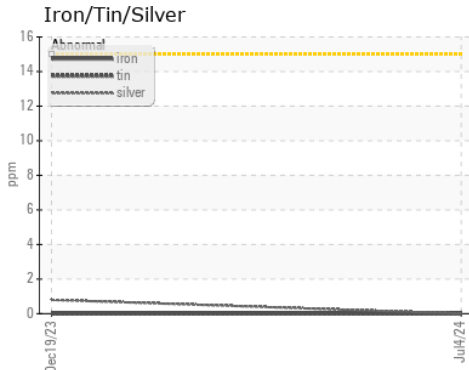


COOLANT REPORT



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

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0955155 **Received** : 05 Jul 2024
Lab Number : **02645989** **Tested** : 10 Jul 2024
Unique Number : 5811541 **Diagnosed** : 10 Jul 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

TransitNext M&R Inc
 3110 Albion Road North
 Ottawa, ON
 CA K1V 9V9

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.

Contact: Denis Deschamps
 Denis.Deschamps@atkinsrealis.com

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F: