

COOLANT REPORT

Sample Rating Trend

WEAR

Machine Id

Alstom C9 B-Car

Component

Reservoir Coolant

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. Recommend that you ensure the same technology coolant is being used for make-up. 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

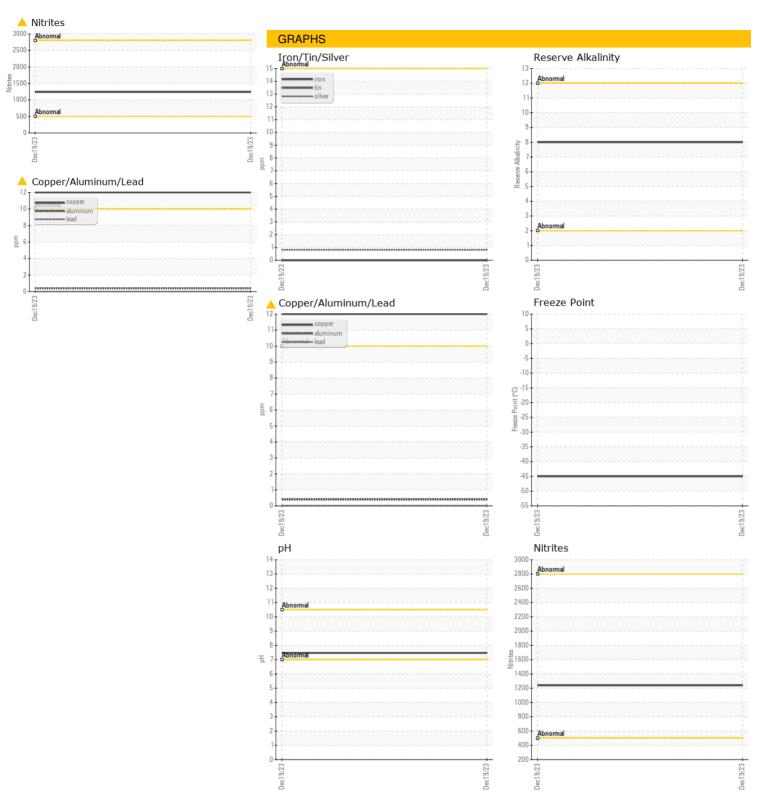
The nitrite level is acceptable. The specific gravity is higher than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

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SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0891332		
Sample Date		Client Info		19 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	1.060	1.072		
рН	Scale 0-14	ASTM D1287*	8.0	7.47		
Nitrites	ppm	Alcan Test Kit*		1240		
Reserve Alkalinity	Scale 0-20	ASTM D1121*	10.0	8.0		
Percentage Glycol	%	ASTM D3321*	50	54.0		
Freezing Point	°C	ASTM D3321*	-36	-45		
Carboxylate						
CORROSION INHI	BITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	240	62		
Phosphorus	ppm	ASTM D5185(m)	0	20		
Boron	ppm	ASTM D5185(m)	O	1823		
Molybdenum	ppm	ASTM D5185(m)		<1		
	ррпп	, ,				
CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	0		
Aluminum	ppm	ASTM D5185(m)		<1		
Copper	ppm	ASTM D5185(m)	>10	<u>12</u>		
Lead	ppm	ASTM D5185(m)	>10	0		
Tin	ppm	ASTM D5185(m)	>10	0		
Silver	ppm	ASTM D5185(m)	>10	<1		
Zinc	ppm	ASTM D5185(m)		0		
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		10922		
Potassium	ppm	ASTM D5185(m)		231		
SCALE POTENTIA		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	4		
Magnesium	ppm	ASTM D5185(m)	>40	1		
Hardness	mg/L CaCO3	In-house*	<75	15		
VISUAL	•	method	limit/base	current	history1	history2
		Visual*			Thistory	
Coolant Color		Visual*	Yello Clear	Yellow Clear		
Coolant Appearance Color		Visual	Clear	Clear	no image	no image
Bottom					no image	no image

Contact/Location: Denis Deschamps - TRA310OTT



COOLANT REPORT





CALA ISO 17025:2017 Accredited Laboratory

Laboratory Sample No. Lab Number

Unique Number : 5697850 Test Package : COOL

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0891332 : 02604765

Recieved Diagnosed

: 21 Dec 2023 : 22 Dec 2023 Diagnostician : Kevin Marson

TransitNext M&R Inc 3110 Albion Road North Ottawa, ON CA K1V 9V9 Contact: Denis Deschamps Denis.Deschamps@atkinsrealis.com

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.

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