

COOLANT REPORT

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Sample Rating Trend

WEAR

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Machine Id

Alstom C9 a 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

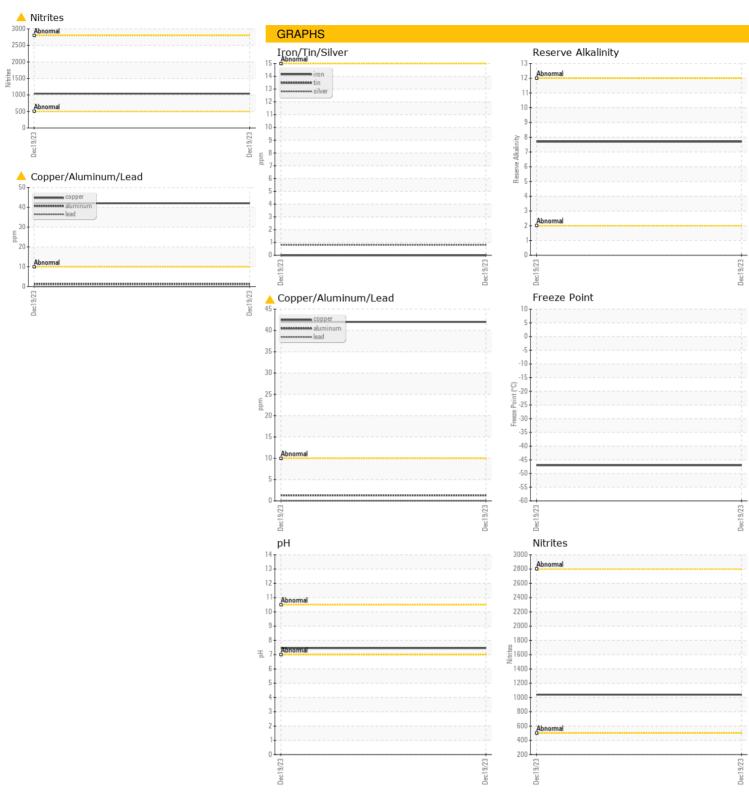
The nitrite level is acceptable. The specific gravity is higher than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

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<i>'</i>	IATION			Dec2023	for the term of the	hilatan O
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0891331		
Sample Date	la u a	Client Info		19 Dec 2023		
Machine Age	hrs	Client Info		0		
Oil Age	hrs	Client Info		0 N/A		
Oil Changed		Client Info		N/A ABNORMAL		
Sample Status				ADNORMAL		
PHYSICAL TEST R	ESULTS	method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*	1.060	<u> </u>		
рН	Scale 0-14	ASTM D1287*	8.0	7.46		
Nitrites	ppm	Alcan Test Kit*		1040		
Reserve Alkalinity	Scale 0-20	ASTM D1121*	10.0	7.7		
Percentage Glycol	%	ASTM D3321*	50	55.1		
Freezing Point	°C	ASTM D3321*	-36	-47		
Carboxylate						
CORROSION INHI	BITORS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	240	49		
Phosphorus	ppm	ASTM D5185(m)	0	14		
Boron	ppm	ASTM D5185(m)		1717		
Molybdenum	ppm	ASTM D5185(m)		0		
CORROSION		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185(m)	>15	0		
	ppm	. ,		1		
Aluminum	ppm	ASTM D5185(m) ASTM D5185(m)	>10	▲ 42		
Copper Lead	ppm	ASTM D5185(m)	>10	0		
Tin	ppm	ASTM D5185(m)	>10	0		
Silver	ppm	. ,		<1		
	ppm	ASTM D5185(m)	>10			
Zinc	ppm	ASTM D5185(m)		0		
CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		10500		
Potassium	ppm	ASTM D5185(m)		612		
SCALE POTENTIA	AL	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	3		
Magnesium	ppm	ASTM D5185(m)	>40	3		
Hardness	mg/L CaCO3	In-house*	<75	19		
VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*	Yello	Green		
Coolant Appearance		Visual*	Clear	Clear		
Color					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 : 5697849 Test Package : COOL

: WC0891331 : 02604764

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

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

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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