



COOLANT REPORT

CORROSION	NORMAL
CONTAMINANTS	NORMAL
COOLANT CONDITION	NORMAL

Area
MCMaster UNIVERSITY [151223]

Machine Id
79670971

Component
Coolant
Fluid
CONVENTIONAL COOLANT (--- GAL)

RECOMMENDATION

The fluid is suitable for further service. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		CU0023306	CU0019031	---
Sample Date		Client Info		19 Jan 2024	24 Jan 2022	---
Machine Age	hrs	Client Info		121	89	---
Oil Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Sample Status				NORMAL	NORMAL	---

CORROSION

All metal levels are normal indicating no corrosion in the cooling system.

Iron	ppm	ASTM D5185(m)	>15	0	<1	---
Aluminum	ppm	ASTM D5185(m)	>10	3	9	---
Copper	ppm	ASTM D5185(m)	>10	1	2	---
Lead	ppm	ASTM D5185(m)	>10	0	<1	---
Tin	ppm	ASTM D5185(m)	>10	0	0	---
Silver	ppm	ASTM D5185(m)	>10	0	<1	---
Zinc	ppm	ASTM D5185(m)	>10	<1	1	---

CONTAMINANTS

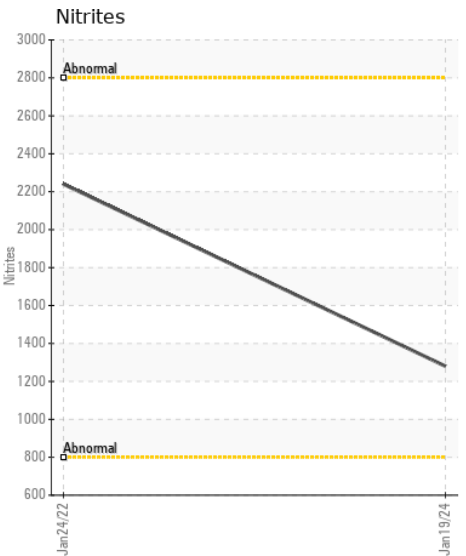
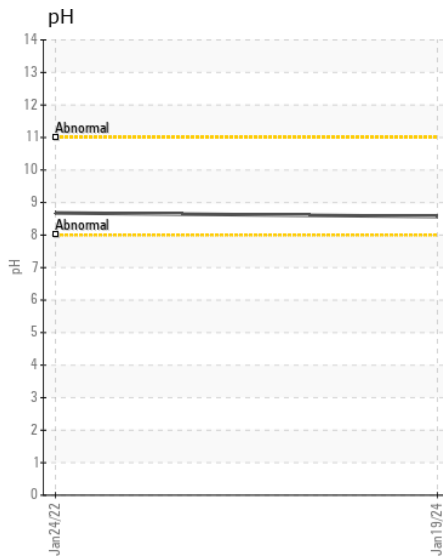
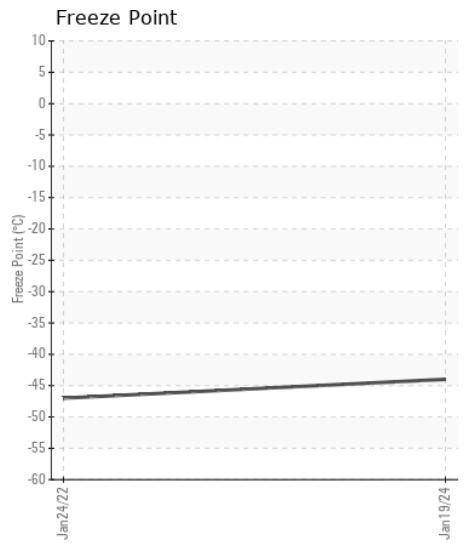
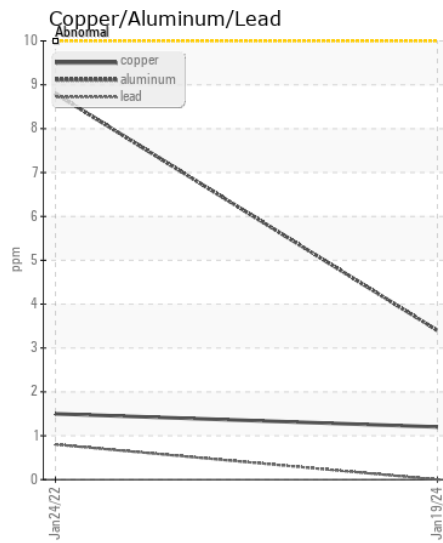
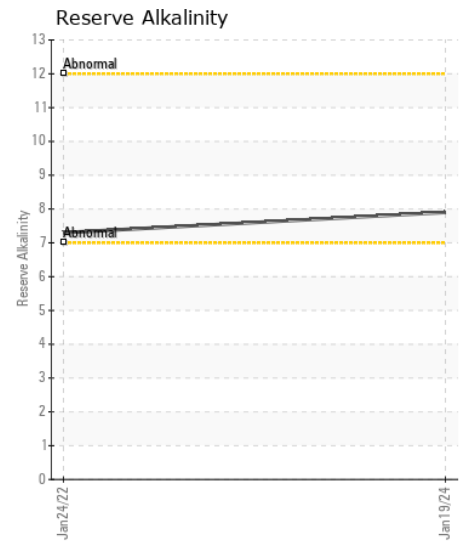
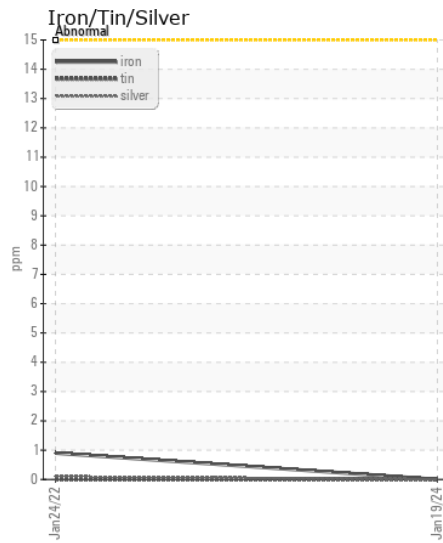
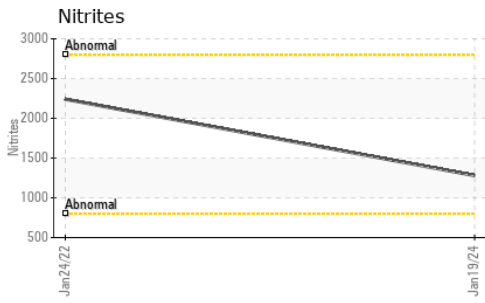
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	1	2	---
Magnesium	ppm	ASTM D5185(m)	>40	<1	<1	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Coolant Appearance		Visual*	Clear	Clear	Clear	---

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.

Boiling Point	°C	WC Method*		108	---	---
Specific Gravity		ASTM D1298*		1.074	1.076	---
pH	Scale 0-14	ASTM D1287*	9.5	8.57	8.68	---
Nitrites	ppm	Alcan Test Kit*	1500	1280	2240	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	7.9	7.3	---
Percentage Glycol	%	ASTM D3321*	50	55.2	57.0	---
Freezing Point	°C	ASTM D3321*	-40	-44	-47	---
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		30	62	---
Phosphorus	ppm	ASTM D5185(m)		858	942	---
Boron	ppm	ASTM D5185(m)		273	340	---
Molybdenum	ppm	ASTM D5185(m)		477	567	---
Sodium	ppm	ASTM D5185(m)		1597	1218	---
Potassium	ppm	ASTM D5185(m)		5225	2302	---
Coolant Color		Visual*	Green	Green	Green	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : CU0023306 **Received** : 29 Apr 2024
Lab Number : 02632121 **Tested** : 30 Apr 2024
Unique Number : 5773274 **Diagnosed** : 01 May 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

CUMMINS CANADA ULC - GENERATOR DIVISION
 7175 PACIFIC CIRCLE
 MISSISSAUGA, ON
 CA L5T 2A5
 Contact: Elisia Johnson
 elisia.johnson@cummins.com
 T: (905)795-0050
 F: (905)795-9252

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.