



# COOLANT REPORT

CORROSION	<b>NORMAL</b>
CONTAMINANTS	<b>NORMAL</b>
COOLANT CONDITION	<b>NORMAL</b>

Area  
**MCMaster UNIVERSITY [154142]**

Machine Id  
**25400085 GEN 5**

Component  
**Coolant**

Fluid  
**EXTENDED LIFE 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		<b>CU0022730</b>	CU0020074	CU0019255
Sample Date		Client Info		<b>20 Mar 2024</b>	24 Nov 2022	13 Apr 2022
Machine Age	hrs	Client Info		<b>197</b>	187	181
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## CORROSION

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

Iron	ppm	ASTM D5185(m)	>15	<b>0</b>	2	<1
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	4	5
Copper	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	1
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	0	<1
Zinc	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	1

## CONTAMINANTS

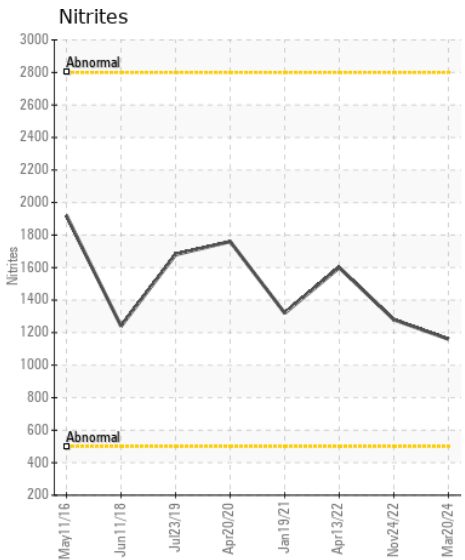
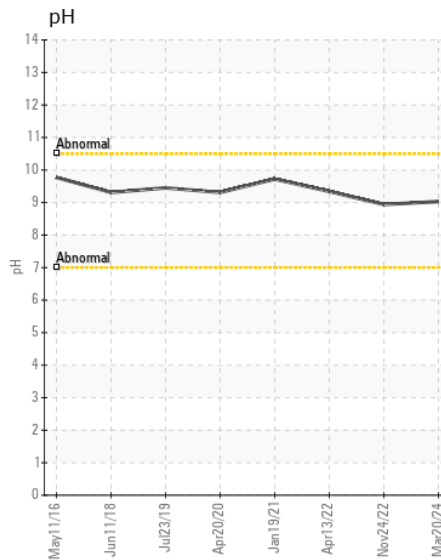
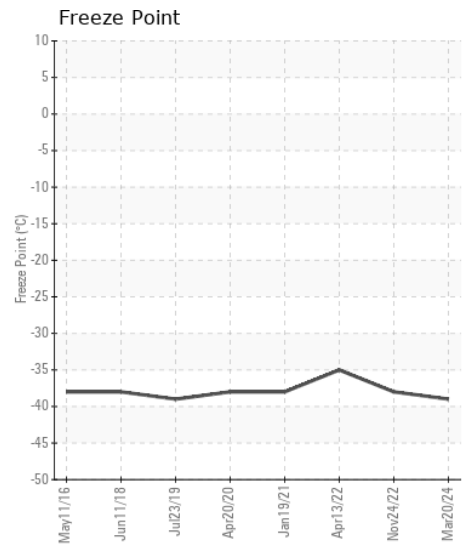
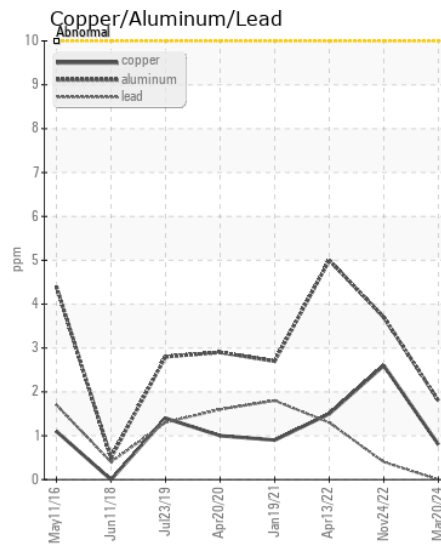
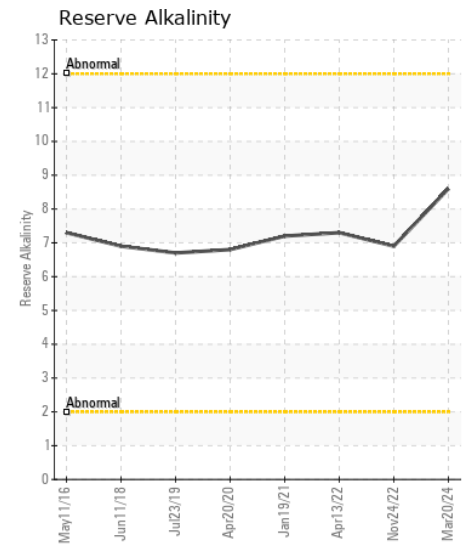
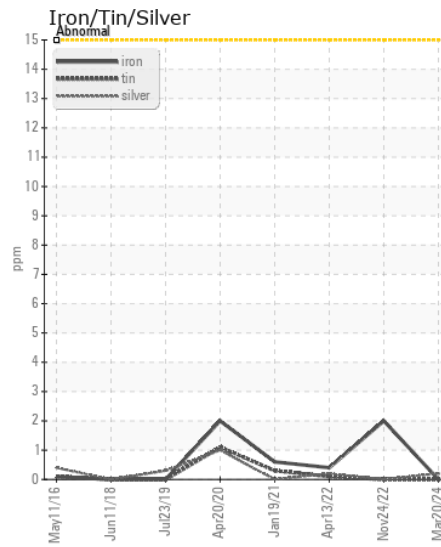
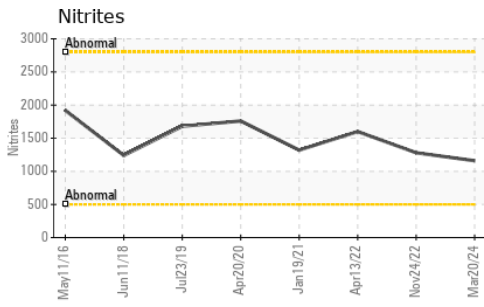
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	<b>1</b>	1	1
Magnesium	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	<1	1
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Coolant Appearance		Visual*	Clear	<b>Clear</b>	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*		<b>108</b>	---	---
Specific Gravity		ASTM D1298*		<b>1.069</b>	1.069	1.068
pH	Scale 0-14	ASTM D1287*	9.0	<b>9.03</b>	8.94	9.34
Nitrites	ppm	Alcan Test Kit*		<b>1160</b>	1280	1600
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>8.6</b>	6.9	7.3
Percentage Glycol	%	ASTM D3321*	50	<b>51.2</b>	51.2	50.9
Freezing Point	°C	ASTM D3321*	-40	<b>-39</b>	-38	-35
Carboxylate				<b>---</b>	---	---
Silicon	ppm	ASTM D5185(m)		<b>28</b>	56	67
Phosphorus	ppm	ASTM D5185(m)		<b>760</b>	786	817
Boron	ppm	ASTM D5185(m)		<b>229</b>	297	314
Molybdenum	ppm	ASTM D5185(m)		<b>385</b>	508	533
Sodium	ppm	ASTM D5185(m)		<b>1332</b>	1282	1133
Potassium	ppm	ASTM D5185(m)		<b>4380</b>	2995	2280
Coolant Color		Visual*	Orange/R	<b>Blue</b>	Blue	Green



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : CU0022730  
**Lab Number** : 02632119  
**Unique Number** : 5773272  
**Test Package** : COOL ( Additional Tests: GlycolType )  
**Received** : 29 Apr 2024  
**Tested** : 30 Apr 2024  
**Diagnosed** : 01 May 2024 - Kevin Marson

**CUMMINS CANADA ULC - GENERATOR DIVISION**  
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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.