



**POWER SYSTEMS**  
**SYSTÈMES DE PUISSANCE**

**COOLANT REPORT**

**CORROSION**

**ABNORMAL**

**CONTAMINANTS**

**NORMAL**

**COOLANT CONDITION**

**NORMAL**

Area

**GREY BRUCE [285519]**

Machine Id

**CUMMINS - F50789540 CUMMINS**

Component

**Coolant**

Fluid

**CONVENTIONAL COOLANT (--- LTR)**

**RECOMMENDATION**

The coolant change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WA0021508</b>	WA0019513	WA0017665
Sample Date		Client Info		<b>03 Jun 2024</b>	02 May 2023	03 May 2022
Machine Age	hrs	Client Info		<b>989</b>	954	903
Oil Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**CORROSION**

Lead ppm levels are abnormal. The high metal levels indicate corrosion in the system.

Iron	ppm	ASTM D5185(m)	>15	<b>3</b>	3	2
Aluminum	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	2
Copper	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	3	2
Lead	ppm	ASTM D5185(m)	>10	<b>▲ 15</b>	▲ 15	▲ 19
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	<1
Zinc	ppm	ASTM D5185(m)	>10	<b>2</b>	2	3

**CONTAMINANTS**

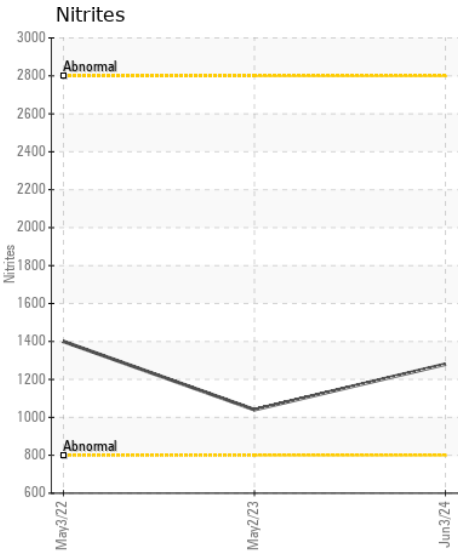
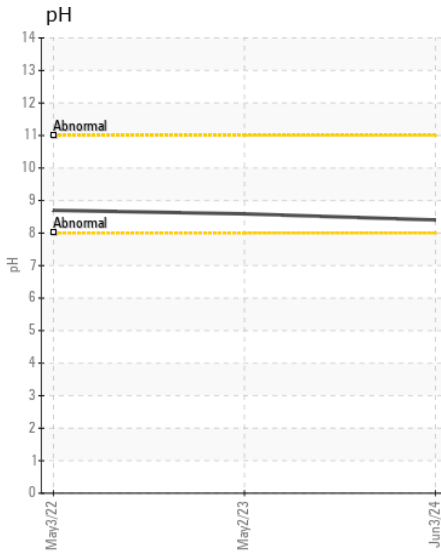
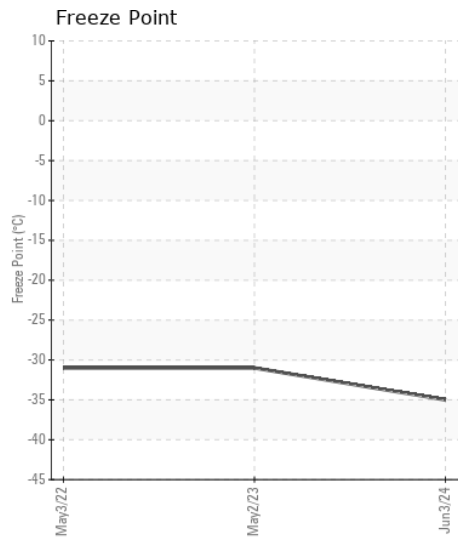
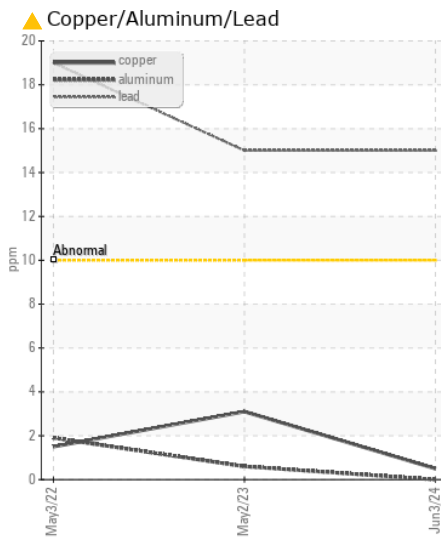
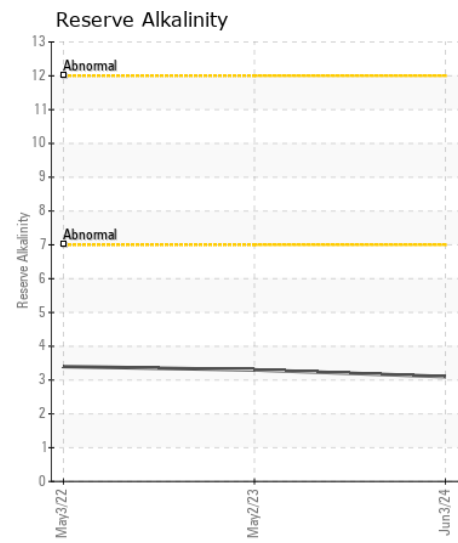
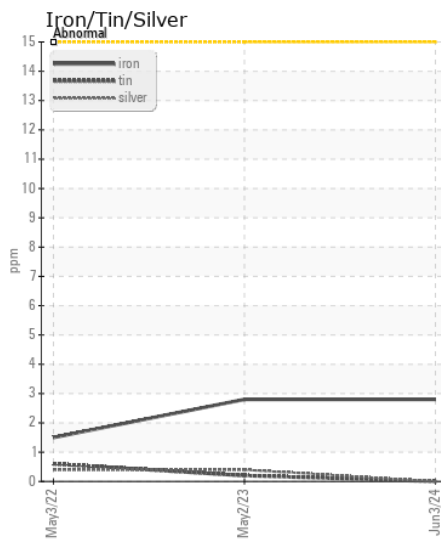
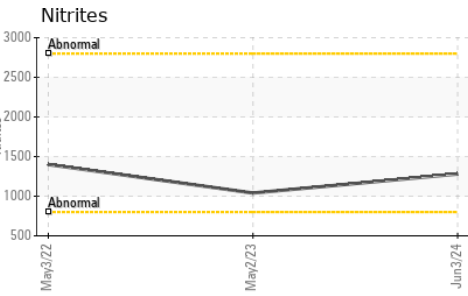
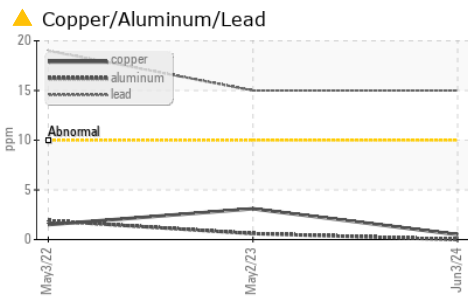
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	<b>2</b>	4	5
Magnesium	ppm	ASTM D5185(m)	>40	<b>&lt;1</b>	2	2
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	▲ Cloudy

**COOLANT CONDITION**

The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits.

Boiling Point	°C	WC Method*		<b>107</b>	---	---
Specific Gravity		ASTM D1298*		<b>1.065</b>	1.065	1.065
pH	Scale 0-14	ASTM D1287*	9.5	<b>8.40</b>	8.59	8.70
Nitrites	ppm	Alcan Test Kit*	1500	<b>1280</b>	1040	1400
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	<b>3.1</b>	3.3	3.4
Percentage Glycol	%	ASTM D3321*	50	<b>48.5</b>	48.4	48.4
Freezing Point	°C	ASTM D3321*	-40	<b>-35</b>	-31	-31
Carboxylate				<b>---</b>	---	---
Silicon	ppm	ASTM D5185(m)		<b>32</b>	32	49
Phosphorus	ppm	ASTM D5185(m)		<b>27</b>	20	32
Boron	ppm	ASTM D5185(m)		<b>144</b>	155	177
Molybdenum	ppm	ASTM D5185(m)		<b>4</b>	7	13
Sodium	ppm	ASTM D5185(m)		<b>2673</b>	2048	1751
Potassium	ppm	ASTM D5185(m)		<b>393</b>	387	437
Coolant Color		Visual*	Green	<b>Green</b>	Green	Green



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WA0021508 **Received** : 03 Jul 2024  
**Lab Number** : 02645318 **Tested** : 04 Jul 2024  
**Unique Number** : 5802857 **Diagnosed** : 04 Jul 2024 - Kevin Marson  
**Test Package** : COOL ( Additional Tests: GlycolType )

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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