



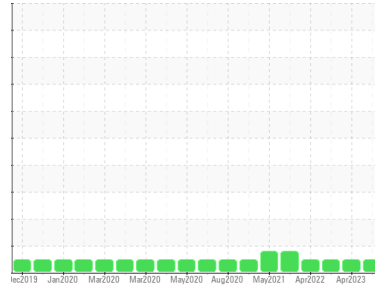
# COOLANT REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**Grand River CAT 1 GRRM01BE**  
 Component  
**Jacket Water Coolant**  
 Fluid  
**CHEVRON HEAVY DUTY PF COOLANT (--- GAL)**



## DIAGNOSIS

### Recommendation

The fluid is suitable for further service.

### Corrosion

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

### Contaminants

There is no indication of any contamination in the coolant.

### Coolant Condition

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0724857</b>	WC0724828	WC0724877
Sample Date	Client Info		<b>10 Oct 2023</b>	04 Apr 2023	17 Oct 2022
Machine Age	hrs	Client Info	<b>70050</b>	68564	65713
Oil Age	hrs	Client Info	<b>70050</b>	68564	65713
Oil Changed	Client Info		<b>Not Changed</b>	N/A	Not Changed
Sample Status			<b>NORMAL</b>	NORMAL	NORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		<b>1.064</b>	1.064	1.064
pH	Scale 0-14 ASTM D1287	10.5	<b>8.89</b>	8.95	8.50
Nitrites	ppm AP-053:2009	>800	<b>488</b>	1088	900
Reserve Alkalinity	Scale 0-20 *ASTM D1121		<b>---</b>	---	---
Percentage Glycol	% ASTM D3321	50	<b>47.0</b>	47.0	47.2
Freezing Point	°F ASTM D3321	-37	<b>-28</b>	-28	-28
Total Dissolved Solids			<b>251.5</b>	229.5	227.5
Carboxylate			<b>n/a</b>	fail	n/a

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D6130	1000	<b>37</b>	105	99
Phosphorus	ppm ASTM D6130	0	<b>5</b>	33	0
Boron	ppm ASTM D6130		<b>313</b>	580	613
Molybdenum	ppm ASTM D6130		<b>207</b>	364	384

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm ASTM D6130	>15	<b>0</b>	4	<1
Aluminum	ppm ASTM D6130	>10	<b>&lt;1</b>	0	0
Copper	ppm ASTM D6130	>10	<b>3</b>	7	8
Lead	ppm ASTM D6130	>10	<b>0</b>	<1	0
Tin	ppm ASTM D6130	>10	<b>0</b>	0	0
Zinc	ppm ASTM D6130		<b>0</b>	<1	2

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm ASTM D6130		<b>4</b>	33	4

## CARRIER SALTS

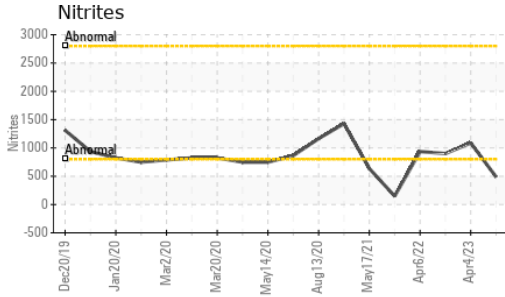
	method	limit/base	current	history1	history2
Sodium	ppm ASTM D6130		<b>1841</b>	3053	3169
Potassium	ppm ASTM D6130		<b>66</b>	218	128

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm ASTM D6130		<b>&lt;1</b>	1	4
Magnesium	ppm ASTM D6130		<b>&lt;1</b>	<1	0

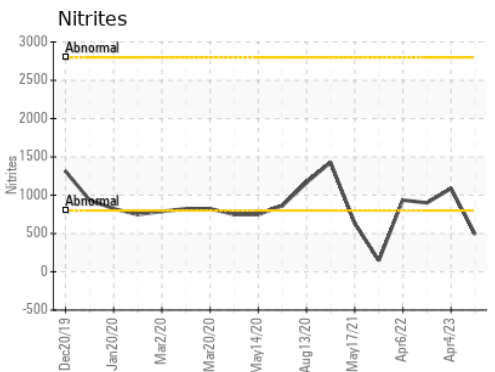
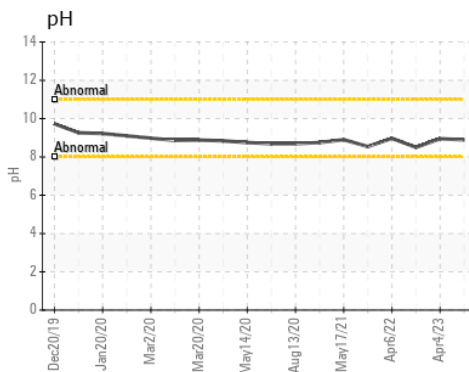
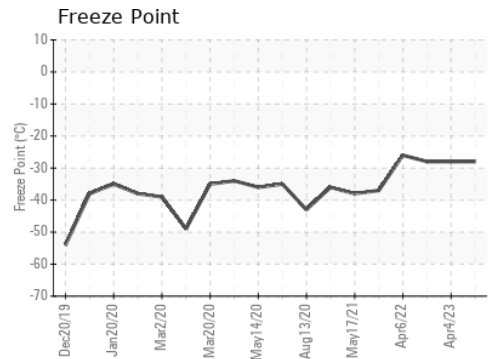
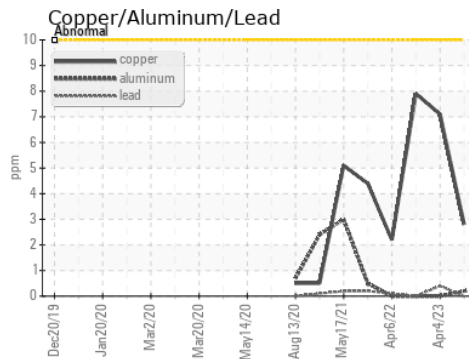
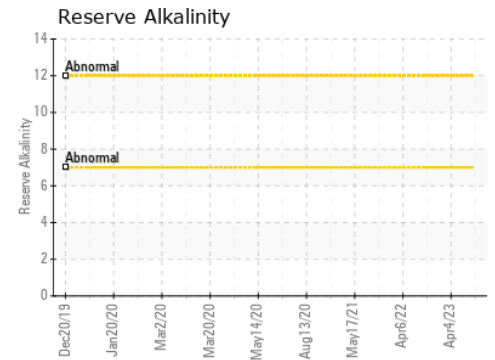
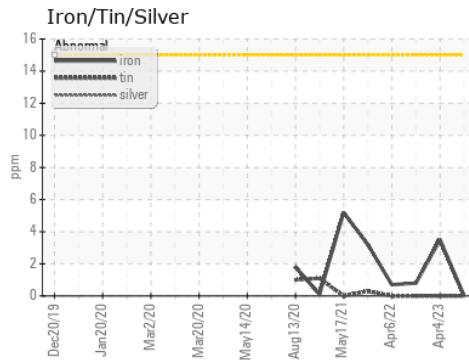


# COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual	Grn/Prpl	<b>Red</b>	Red	Red
Coolant Appearance	*Visual	Clear	<b>normal</b>	normal	normal
Color					
Bottom					

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0724857 **Received** : 12 Oct 2023  
**Lab Number** : 05977883 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10695178 **Diagnostician** : Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**EDL NA Recips-Grand River**  
 Grand River Powerstation, 8550 West Grand River Hwy  
 Grand Ledge, MI  
 US 48837  
 Contact: JAMES ALEXANDER  
 james.alexander@edlenergy.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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F: