



# COOLANT REPORT

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



Machine Id  
**JOHN DEERE 644K LDR009**  
Component  
**Coolant**  
Fluid  
**EXTENDED LIFE COOLANT (--- GAL)**

## RECOMMENDATION

We recommend that you drain the system and refill with a 50/50 long-life coolant/water mixture. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0892477</b>	---	---
Sample Date		Client Info		<b>08 Jan 2024</b>	---	---
Machine Age	hrs	Client Info		<b>111363</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Not Chngd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## CORROSION

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

Iron	ppm	ASTM D5185(m)	>15	<b>7</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	---	---
Copper	ppm	ASTM D5185(m)	>10	<b>▲ 39</b>	---	---
Lead	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Zinc	ppm	ASTM D5185(m)	>10	<b>12</b>	---	---

## CONTAMINANTS

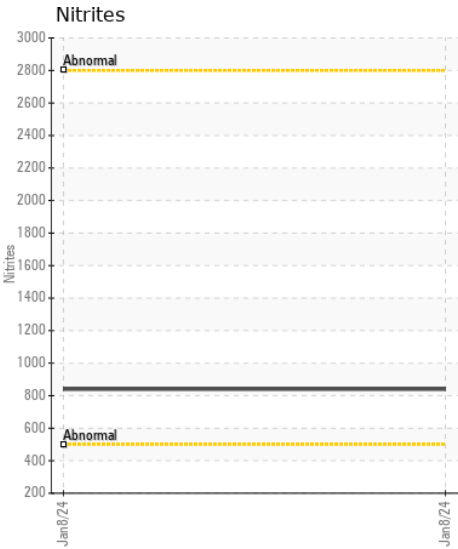
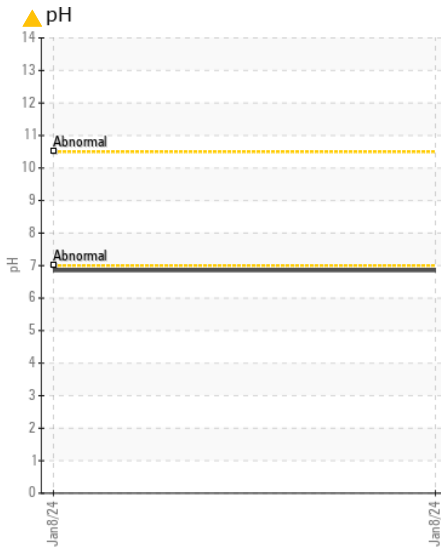
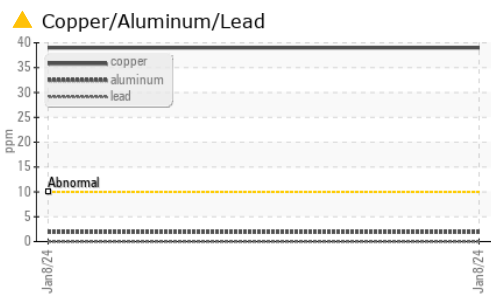
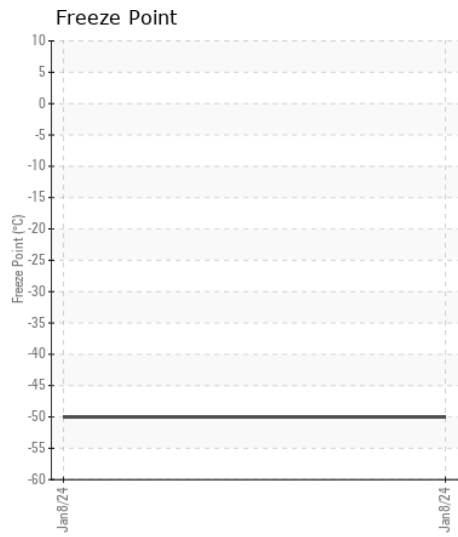
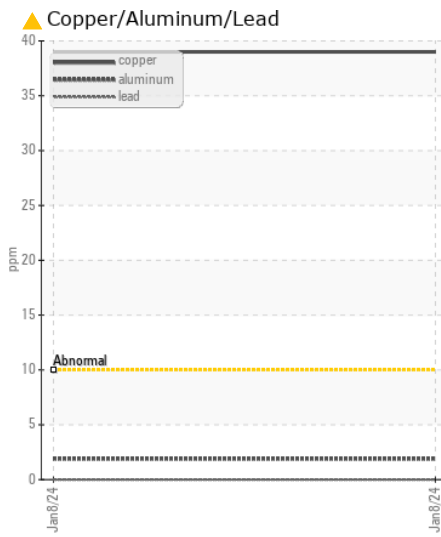
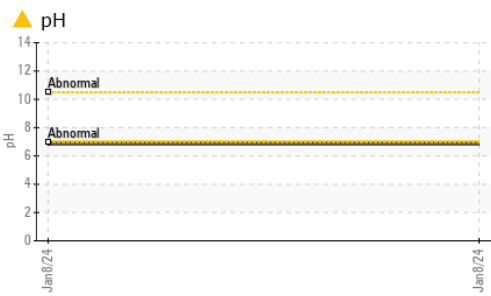
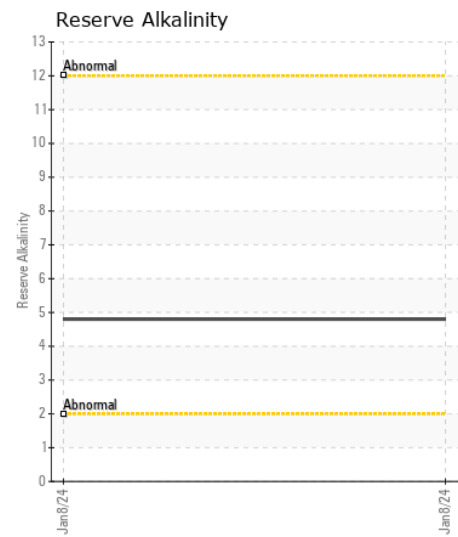
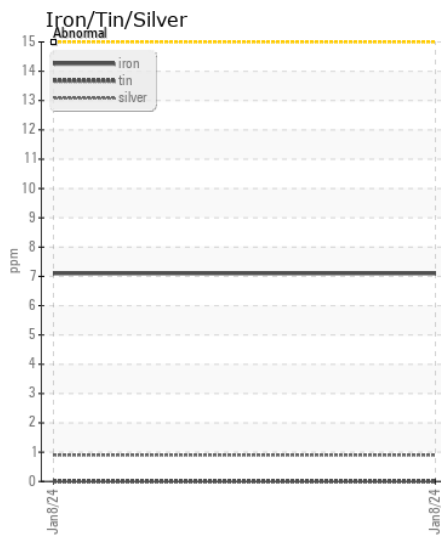
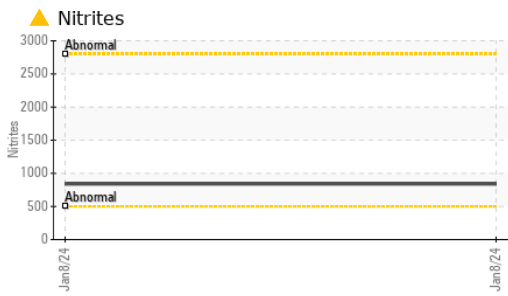
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	<b>8</b>	---	---
Magnesium	ppm	ASTM D5185(m)	>40	<b>2</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Coolant Appearance		Visual*	Clear	<b>Clear</b>	---	---

## COOLANT CONDITION

The nitrite level is acceptable. The pH is low which causes rust formation. The reserve alkalinity of this fluid is acceptable.

Specific Gravity		ASTM D1298*		<b>1.075</b>	---	---
pH	Scale 0-14	ASTM D1287*	9.0	<b>▲ 6.85</b>	---	---
Nitrites	ppm	Alcan Test Kit*		<b>840</b>	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>4.8</b>	---	---
Percentage Glycol	%	ASTM D3321*	50	<b>56.0</b>	---	---
Freezing Point	°C	ASTM D3321*	-40	<b>-50</b>	---	---
Carboxylate				<b>---</b>	---	---
Silicon	ppm	ASTM D5185(m)		<b>121</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>53</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>855</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>136</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>10088</b>	---	---
Potassium	ppm	ASTM D5185(m)		<b>289</b>	---	---
Coolant Color		Visual*	Orange/R	<b>Red</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0892477  
**Lab Number** : 02608326  
**Unique Number** : 5709412  
**Test Package** : COOL

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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.