



# COOLANT REPORT

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

Machine Id  
**WESTERN STAR 18-131**

Component  
**Coolant**  
Fluid  
{not provided} (--- LTR)

## RECOMMENDATION

We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>WC0872153</b>	---	---
Sample Date		Client Info		<b>04 May 2024</b>	---	---
Machine Age	kms	Client Info		<b>170073</b>	---	---
Oil Age	kms	Client Info		<b>170073</b>	---	---
Oil Changed		Client Info		<b>Not Changd</b>	---	---
Sample Status				<b>ABNORMAL</b>	---	---

## CORROSION

The iron level is high indicating rust in the system which clogs the cooling system.

Iron	ppm	ASTM D5185(m)	>15	<b>▲ 20</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<b>6</b>	---	---
Copper	ppm	ASTM D5185(m)	>10	<b>0</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>4</b>	---	---

## CONTAMINANTS

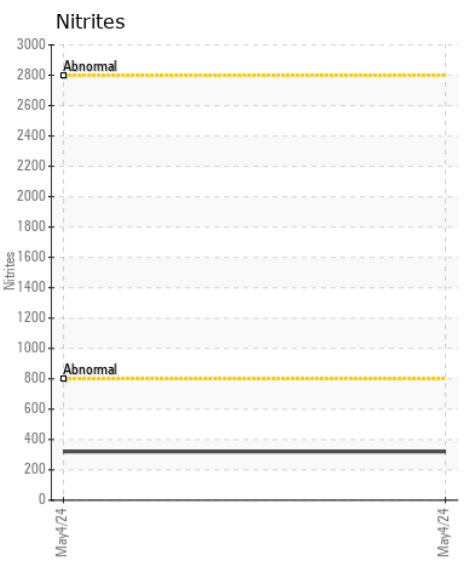
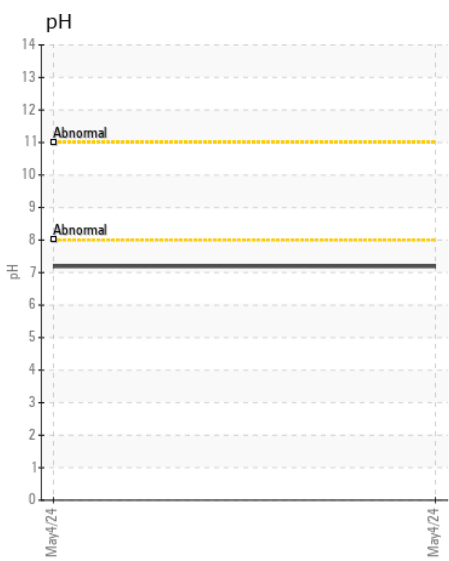
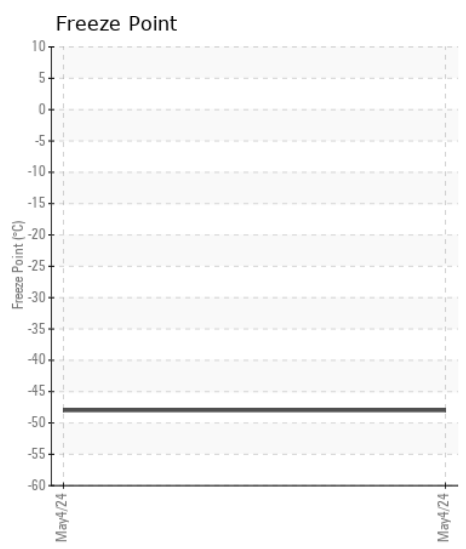
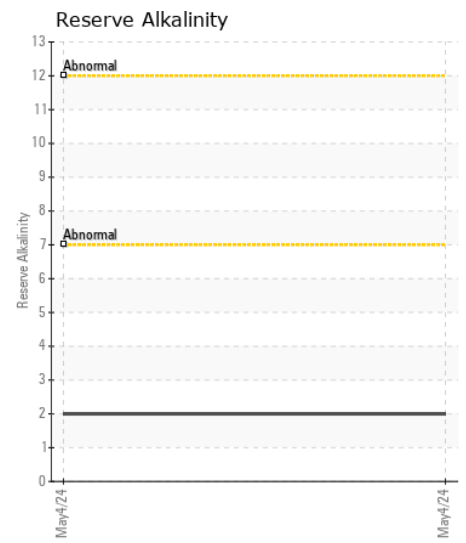
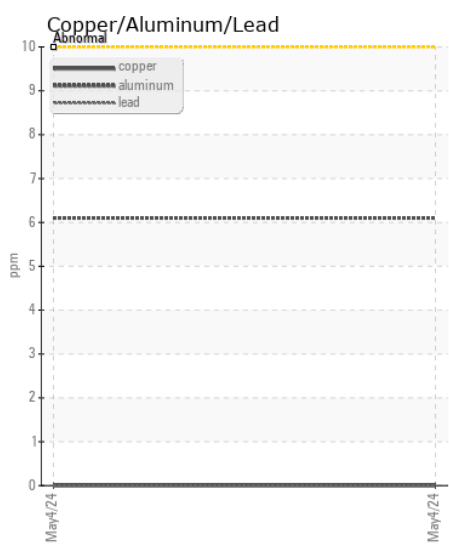
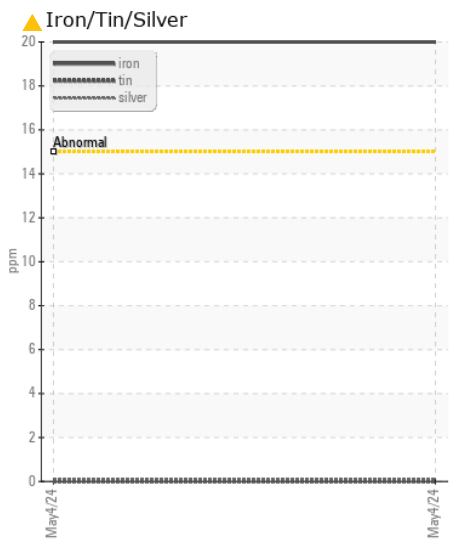
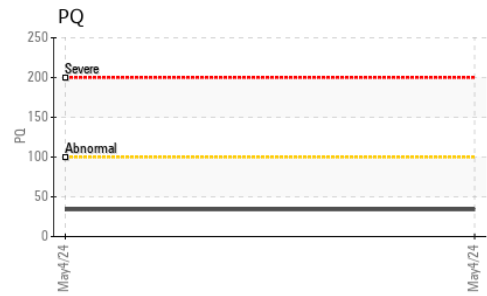
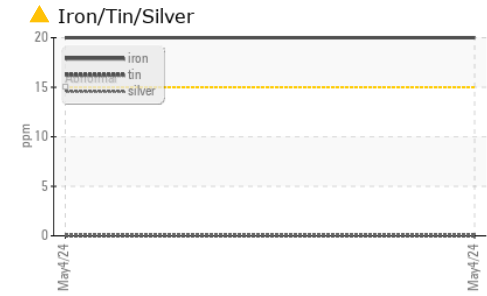
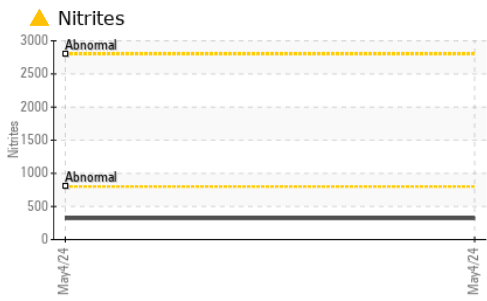
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	<b>6</b>	---	---
Magnesium	ppm	ASTM D5185(m)	>40	<b>2</b>	---	---
Appearance	scalar	Visual*	NORML	<b>HAZY</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Coolant Appearance		Visual*	Clear	<b>▲ Very cld</b>	---	---

## COOLANT CONDITION

The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. 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>109</b>	---	---
Specific Gravity		ASTM D1298*		<b>1.078</b>	---	---
pH	Scale 0-14	ASTM D1287*		<b>7.19</b>	---	---
Nitrites	ppm	Alcan Test Kit*		<b>320</b>	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		<b>2.0</b>	---	---
Percentage Glycol	%	ASTM D3321*		<b>58.2</b>	---	---
Freezing Point	°C	ASTM D3321*		<b>-48</b>	---	---
Carboxylate				<b>---</b>	---	---
Silicon	ppm	ASTM D5185(m)		<b>10</b>	---	---
Phosphorus	ppm	ASTM D5185(m)		<b>13</b>	---	---
Boron	ppm	ASTM D5185(m)		<b>377</b>	---	---
Molybdenum	ppm	ASTM D5185(m)		<b>10</b>	---	---
Sodium	ppm	ASTM D5185(m)		<b>3470</b>	---	---
Potassium	ppm	ASTM D5185(m)		<b>411</b>	---	---
Coolant Color		Visual*		<b>Red</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0872153 **Received** : 08 May 2024  
**Lab Number** : 02634208 **Tested** : 10 May 2024  
**Unique Number** : 5775361 **Diagnosed** : 10 May 2024 - Kevin Marson  
**Test Package** : COOL ( Additional Tests: GlycolType, PQ )

**BRANTCO CONSTRUCTION**  
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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.