

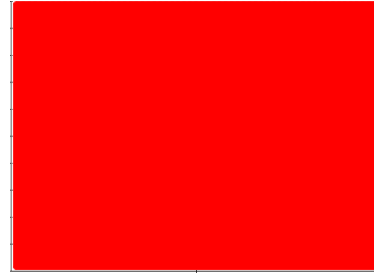


# COOLANT REPORT

Sample Rating Trend

WEAR

Area  
**AURORA [200006927]**  
 Machine Id  
**45WEA87249 - B04 - V (S/N 11322604)**  
 Component  
**Coolant**  
 Fluid  
**ISENTHAL VARIDOS 45 (--- LTR)**



## DIAGNOSIS

### Recommendation

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's recommendations.

### Corrosion

The iron level is severe. The aluminum level is severe.

### Contaminants

Appearance is hazy. 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>NX05981607</b>	---	---
Sample Date	Client Info		<b>26 May 2023</b>	---	---
Machine Age	hrs	Client Info	<b>20715</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		<b>1.069</b>	---	---
pH	Scale 0-14	ASTM D1287	<b>8.50</b>	---	---
Nitrites	ppm	AP-053:2009	<b>788</b>	---	---
Reserve Alkalinity	Scale 0-20	*ASTM D1121	<b>---</b>	---	---
Percentage Glycol	%	ASTM D3321	<b>51.8</b>	---	---
Freezing Point	°F	ASTM D3321	<b>-38</b>	---	---
Total Dissolved Solids			<b>191.5</b>	---	---
Carboxylate			<b>n/a</b>	---	---

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	<b>&lt;1</b>	---	---
Phosphorus	ppm	ASTM D6130	<b>108</b>	---	---
Boron	ppm	ASTM D6130	<b>0</b>	---	---
Molybdenum	ppm	ASTM D6130	<b>728</b>	---	---

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15 <b>289</b>	---	---
Aluminum	ppm	ASTM D6130	>10 <b>49</b>	---	---
Copper	ppm	ASTM D6130	>10 <b>0</b>	---	---
Lead	ppm	ASTM D6130	>10 <b>0</b>	---	---
Tin	ppm	ASTM D6130	>10 <b>0</b>	---	---
Zinc	ppm	ASTM D6130	<b>26</b>	---	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	<b>24</b>	---	---

## CARRIER SALTS

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	1075 <b>600</b>	---	---
Potassium	ppm	ASTM D6130	5 <b>772</b>	---	---

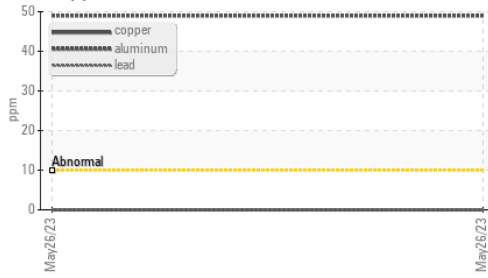
## SCALE POTENTIAL

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

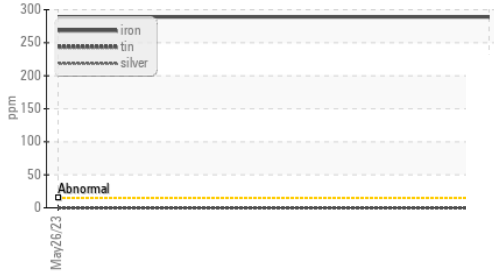


# COOLANT REPORT

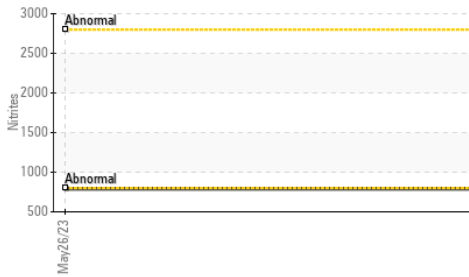
### Copper/Aluminum/Lead





### Iron/Tin/Silver



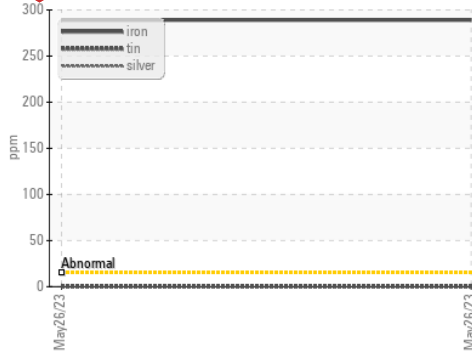
### Nitrites



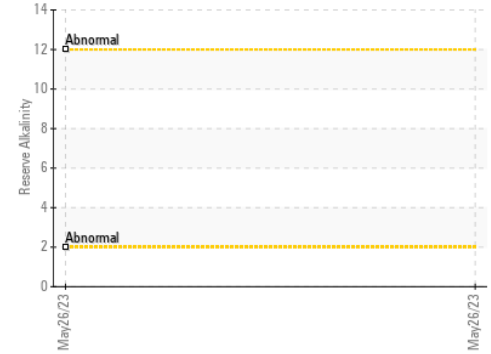
VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual	DkYlw	<b>Orange</b>	---	---
Coolant Appearance	*Visual	Clear	<b>▲ hazy</b>	---	---
Color				no image	no image
Bottom				no image	no image

### GRAPHS

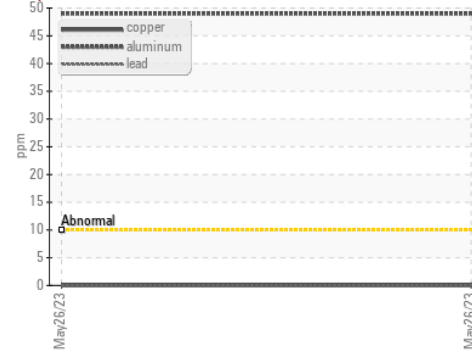
#### Iron/Tin/Silver



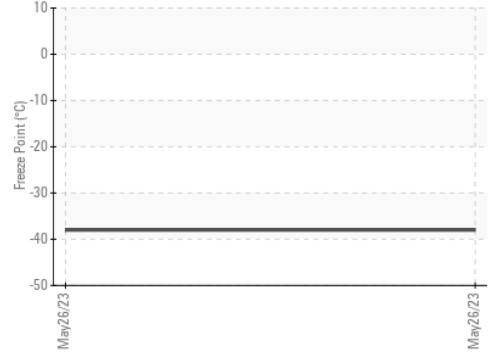
#### Reserve Alkalinity



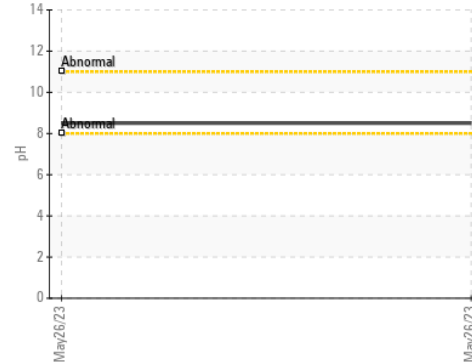
#### Copper/Aluminum/Lead



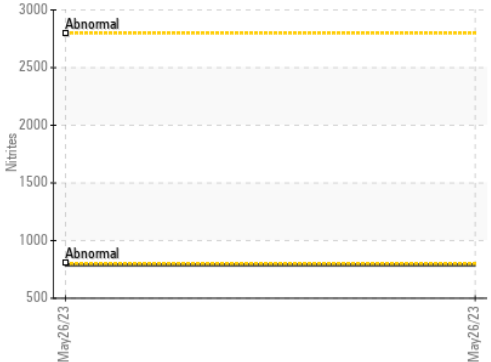
#### Freeze Point



#### pH



#### Nitrites



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NX05981607 **Received** : 17 Oct 2023  
**Lab Number** : **05981607** **Diagnosed** : 30 Oct 2023  
**Unique Number** : 10698902 **Diagnostician** : Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: COOL, ICP )

**NORDEX USA - Chicago**  
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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)