



# COOLANT REPORT

Sample Rating Trend

WEAR

Area  
**THUNDER SPIRIT [200005313]**  
 Machine Id  
**09WEA84017 - GEN (S/N 72802187430)**  
 Component  
**Coolant**  
 Fluid  
**ISENTHAL VARIDOS 45 (--- LTR)**



## DIAGNOSIS

### ▲ Recommendation

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### ▲ Corrosion

Metal levels indicate 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>NX015560</b>	NX013585	NX011156
Sample Date	Client Info		<b>20 Feb 2024</b>	13 Jun 2023	25 May 2022
Machine Age	hrs	Client Info	<b>55038</b>	56173	42822
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		<b>1.075</b>	1.075	1.075
pH	Scale 0-14	ASTM D1287 8.5	<b>8.77</b>	8.72	8.84
Nitrites	ppm	AP-053:2009 260	<b>936</b>	560	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321 45	<b>56.2</b>	56.0	55.7
Freezing Point	°F	ASTM D3321 -24	<b>-50</b>	-50	-47
Total Dissolved Solids			<b>237.5</b>	254.0	257.0
Carboxylate			<b>n/a</b>	n/a	n/a

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130 25	<b>57</b>	79	67
Phosphorus	ppm	ASTM D6130 140	<b>960</b>	1422	847
Boron	ppm	ASTM D6130 0	<b>178</b>	269	260
Molybdenum	ppm	ASTM D6130 1075	<b>159</b>	245	248

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130 >15	▲ <b>32</b>	▲ 66	▲ 83
Aluminum	ppm	ASTM D6130 >10	<b>7</b>	7	6
Copper	ppm	ASTM D6130 >10	<b>2</b>	0	1
Lead	ppm	ASTM D6130 >10	<b>1</b>	0	<1
Tin	ppm	ASTM D6130 >10	<b>0</b>	<1	<1
Zinc	ppm	ASTM D6130	<b>5</b>	12	9

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	<b>23</b>	21	20

## CARRIER SALTS

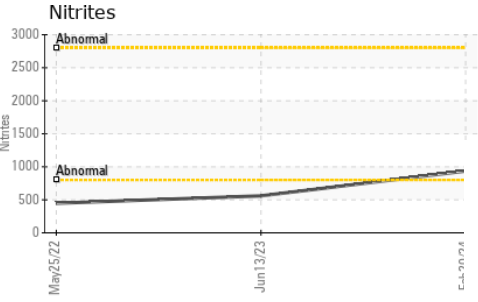
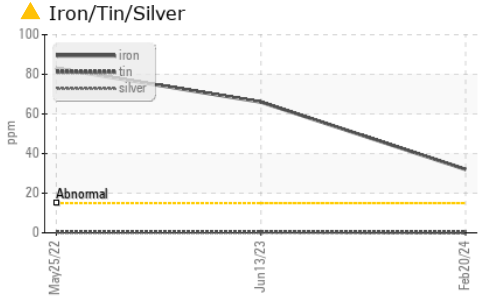
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130 1075	<b>552</b>	846	539
Potassium	ppm	ASTM D6130 5	<b>2961</b>	4661	1846

## SCALE POTENTIAL

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



# COOLANT REPORT

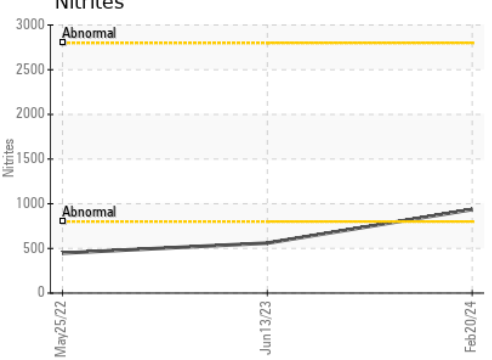
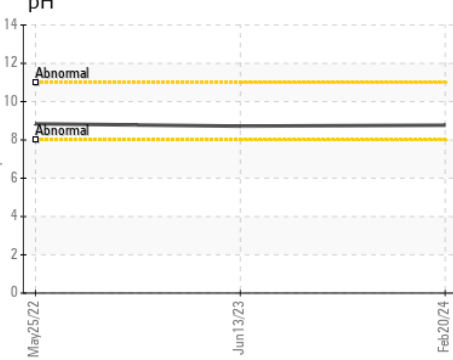
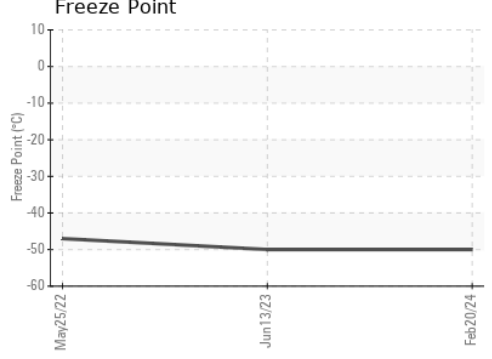
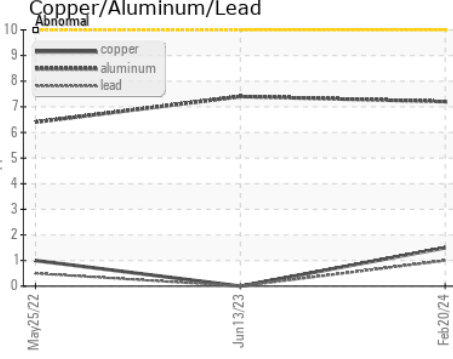
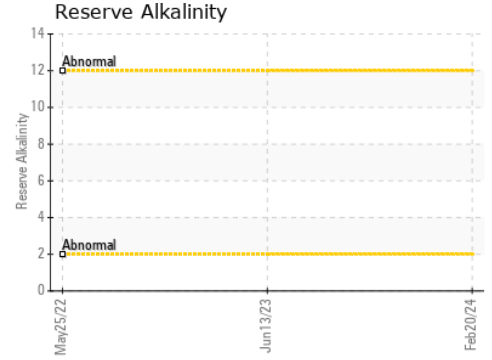
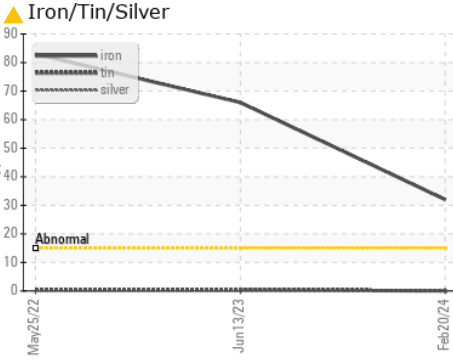


VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual	DkYlw	<b>Pink</b>	Pink	Orange
Coolant Appearance	*Visual	Clear	<b>normal</b>	hazy	normal

Color

Bottom

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : NX015560 **Received** : 19 Mar 2024  
**Lab Number** : **06123297** **Tested** : 20 Mar 2024  
**Unique Number** : 10937448 **Diagnosed** : 22 Mar 2024 - Jonathan Hester  
**Test Package** : COOL- ( Additional Tests: BoilingPoint, COOL, GlycolType, ICP )

**NORDEX USA - Chicago**  
 300 SOUTH WACKER DRIVE, SUITE 1500  
 CHICAGO, IL  
 US 60606  
 Contact: DEVIN LINEHAN  
 DLinehan@nordex-online.com  
 T: (312)386-4124  
 F: (312)386-7102

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)