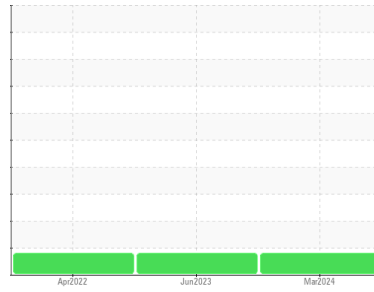




# COOLANT REPORT

## Sample Rating Trend



**WEAR**



Area  
**THUNDER SPIRIT [200009532]**  
 Machine Id  
**21WEA84042 - GEN (S/N 72802187761)**  
 Component  
**Coolant**  
 Fluid  
**INTERCOOL NFE-55AA (--- QTS)**

### DIAGNOSIS

#### ▲ Recommendation

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.

#### ▲ Corrosion

Metal levels are abnormal indicating 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>NX015549</b>	NX013557	NX010595
Sample Date	Client Info		<b>07 Mar 2024</b>	05 Jun 2023	11 Apr 2022
Machine Age	hrs	Client Info	<b>60957</b>	55551	0
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>MARGINAL</b>	ABNORMAL	ABNORMAL

### PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		<b>1.074</b>	1.075	1.075
pH	Scale 0-14	ASTM D1287	<b>8.60</b>	8.60	8.66
Nitrites	ppm	AP-053:2009	<b>712</b>	372	488
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	<b>55.3</b>	56.0	55.8
Freezing Point	°F	ASTM D3321	<b>-47</b>	-50	-47
Total Dissolved Solids			<b>222.5</b>	255.5	270.5
Carboxylate			<b>n/a</b>	n/a	n/a

### CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	<b>32</b>	46	45
Phosphorus	ppm	ASTM D6130	<b>1022</b>	1627	647
Boron	ppm	ASTM D6130	<b>199</b>	312	306
Molybdenum	ppm	ASTM D6130	<b>142</b>	264	278

### CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130 >15	▲ <b>26</b>	▲ 51	▲ 78
Aluminum	ppm	ASTM D6130 >10	<b>1</b>	2	3
Copper	ppm	ASTM D6130 >10	<b>5</b>	0	<1
Lead	ppm	ASTM D6130 >10	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D6130 >10	<b>0</b>	<1	0
Zinc	ppm	ASTM D6130	<b>&lt;1</b>	10	10

### CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	<b>19</b>	23	0

### CARRIER SALTS

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	<b>540</b>	931	554
Potassium	ppm	ASTM D6130	<b>3497</b>	5083	1760

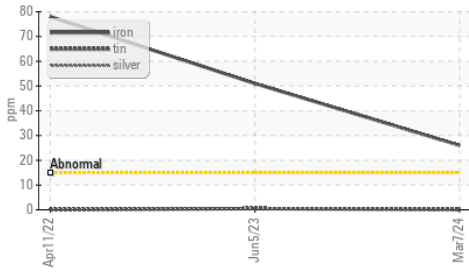
### SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130 >100	<b>0</b>	<1	0
Magnesium	ppm	ASTM D6130 >40	<b>0</b>	<1	<1
Hardness	mg/L CaCO3	*In-house <75	<b>0</b>	---	---

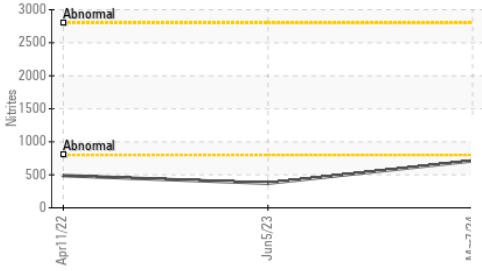


# COOLANT REPORT

▲ Iron/Tin/Silver



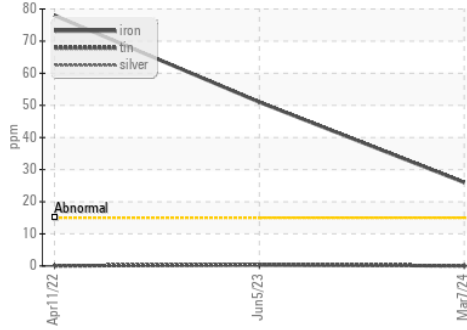
Nitrites



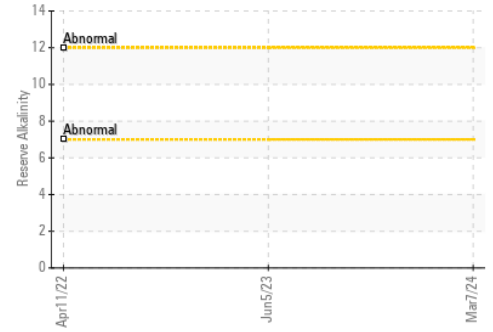
VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Orange	Pink	Orange
Coolant Appearance	*Visual	Clear	normal	hazy	normal
Color					
Bottom					

## GRAPHS

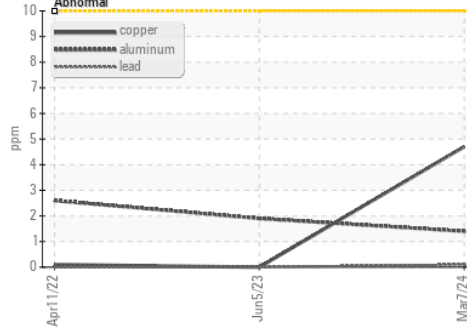
▲ Iron/Tin/Silver



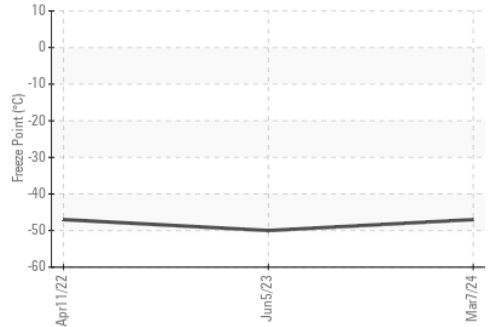
Reserve Alkalinity



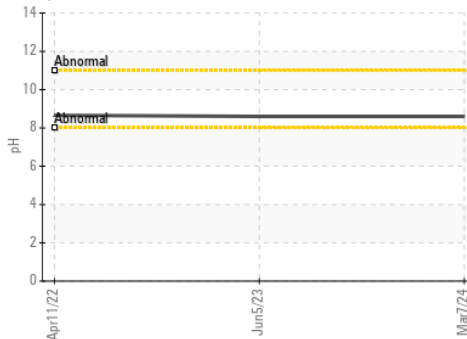
Copper/Aluminum/Lead



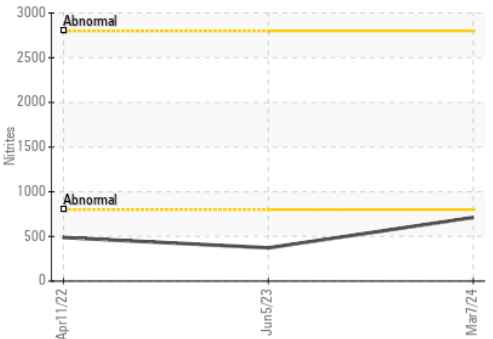
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : NX015549

Lab Number : 06135992

Unique Number : 10955457

Test Package : COOL ( Additional Tests: GlycolType )

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)

Received : 01 Apr 2024

Tested : 05 Apr 2024

Diagnosed : 05 Apr 2024 - Jonathan Hester

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