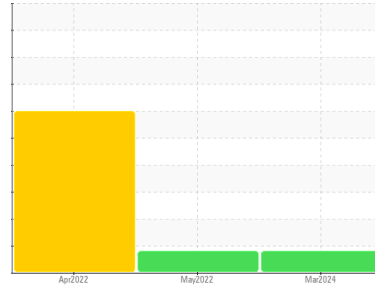




# COOLANT REPORT

Sample Rating Trend



WEAR



Area  
**THUNDER SPIRIT [200009532]**  
 Machine Id  
**28WEA84026 - GEN (S/N 72802187428)**  
 Component  
**Coolant**  
 Fluid  
**INTERCOOL ETHYLENE GLYCOL (--- 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>NX015510</b>	NX011139	NX011197
Sample Date	Client Info		<b>18 Mar 2024</b>	19 May 2022	08 Apr 2022
Machine Age	hrs	Client Info	<b>41563</b>	63903	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>ABNORMAL</b>	ABNORMAL	SEVERE

## PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		<b>1.072</b>	1.073	1.073
pH	Scale 0-14	ASTM D1287	<b>8.49</b>	8.38	8.37
Nitrites	ppm	AP-053:2009	<b>712</b>	372	372
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	<b>54.0</b>	54.6	54.8
Freezing Point	°F	ASTM D3321	<b>-45</b>	-45	-45
Total Dissolved Solids			<b>240.0</b>	255.5	266.0
Carboxylate			<b>n/a</b>	n/a	n/a

## CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	<b>27</b>	38	42
Phosphorus	ppm	ASTM D6130	<b>1020</b>	939	789
Boron	ppm	ASTM D6130	<b>208</b>	284	337
Molybdenum	ppm	ASTM D6130	<b>150</b>	220	258

## CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130 >15	<b>▲ 45</b>	▲ 98	▲ 115
Aluminum	ppm	ASTM D6130 >10	<b>6</b>	7	9
Copper	ppm	ASTM D6130 >10	<b>0</b>	1	<1
Lead	ppm	ASTM D6130 >10	<b>0</b>	<1	<1
Tin	ppm	ASTM D6130 >10	<b>0</b>	<1	0
Zinc	ppm	ASTM D6130	<b>8</b>	14	16

## CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	<b>20</b>	19	0

## CARRIER SALTS

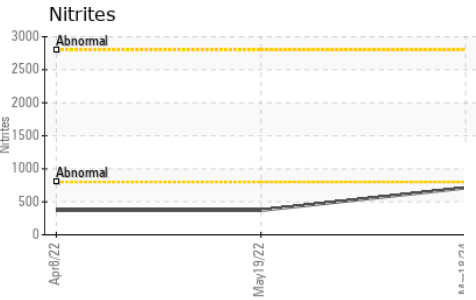
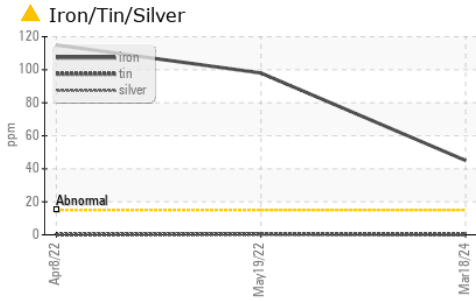
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	<b>556</b>	498	524
Potassium	ppm	ASTM D6130	<b>3550</b>	2019	1915

## SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130 >100	<b>0</b>	2	0
Magnesium	ppm	ASTM D6130 >40	<b>0</b>	<1	0
Hardness	mg/L CaCO3	*In-house <75	<b>0</b>	---	---

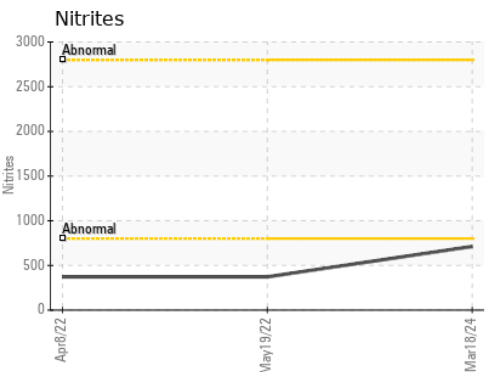
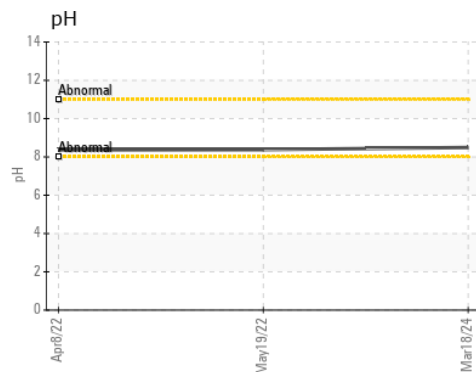
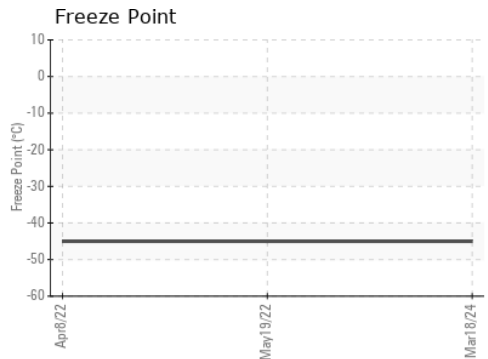
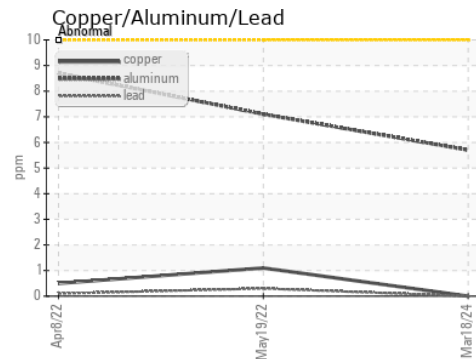
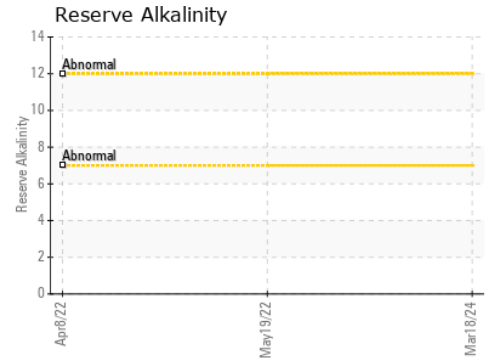
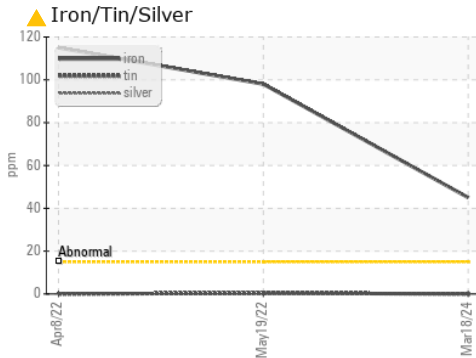


# COOLANT REPORT



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

## GRAPHS



Certificate L2367

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

**Sample No.** : NX015510

**Lab Number** : 06135997

**Unique Number** : 10955462

**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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