

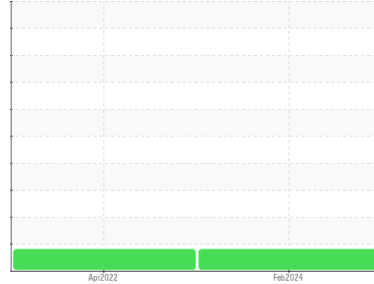


COOLANT REPORT

Sample Rating Trend

WEAR

Area
THUNDER SPIRIT [200005313]
 Machine Id
31WEA84012 - GEN (S/N 72802187429)
 Component
Coolant
 Fluid
CONVENTIONAL COOLANT (--- QTS)



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		NX014742	NX011216	---
Sample Date	Client Info		13 Feb 2024	04 Apr 2022	---
Machine Age	hrs	Client Info	58131	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Glycol Type	FT-IR		---	---	---
Specific Gravity	*ASTM D1298		1.073	1.073	---
pH	Scale 0-14	ASTM D1287	8.45	8.44	---
Nitrites	ppm	AP-053:2009	976	524	---
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	54.4	54.5	---
Freezing Point	°F	ASTM D3321	-45	-45	---
Total Dissolved Solids			259.0	264.0	---
Carboxylate			n/a	n/a	---

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	22	41	---
Phosphorus	ppm	ASTM D6130	1025	746	---
Boron	ppm	ASTM D6130	177	304	---
Molybdenum	ppm	ASTM D6130	143	272	---

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130 >15	▲ 23	▲ 49	---
Aluminum	ppm	ASTM D6130 >10	3	3	---
Copper	ppm	ASTM D6130 >10	1	<1	---
Lead	ppm	ASTM D6130 >10	<1	0	---
Tin	ppm	ASTM D6130 >10	0	0	---
Zinc	ppm	ASTM D6130	3	5	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	24	0	---

CARRIER SALTS

	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	517	532	---
Potassium	ppm	ASTM D6130	3023	1825	---

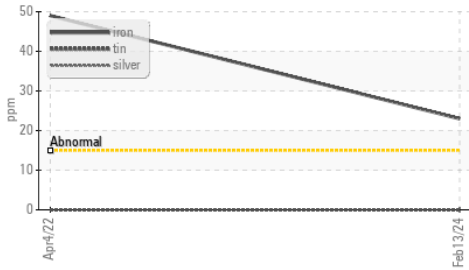
SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130	<1	0	---
Magnesium	ppm	ASTM D6130	<1	<1	---

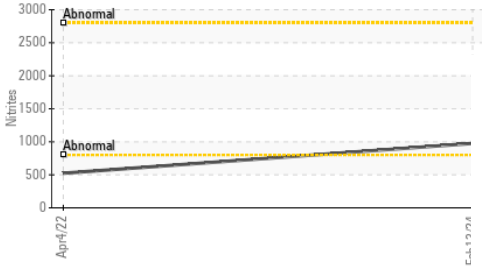


COOLANT REPORT

▲ Iron/Tin/Silver



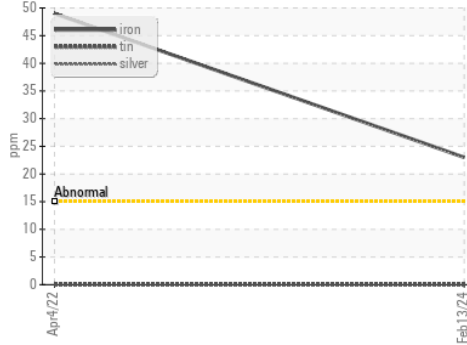
Nitrites



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual		Pink	Orange	---
Coolant Appearance	*Visual	Clear	normal	normal	---
Color					no image
Bottom					no image

GRAPHS

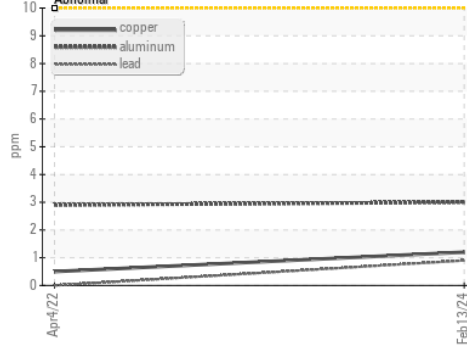
▲ Iron/Tin/Silver



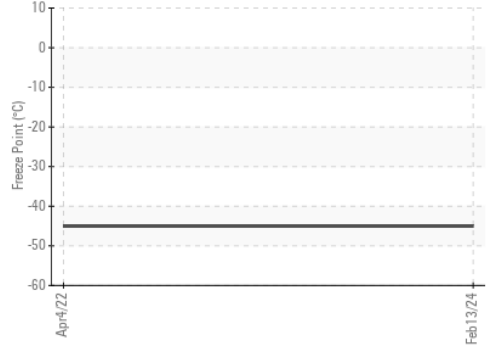
Reserve Alkalinity



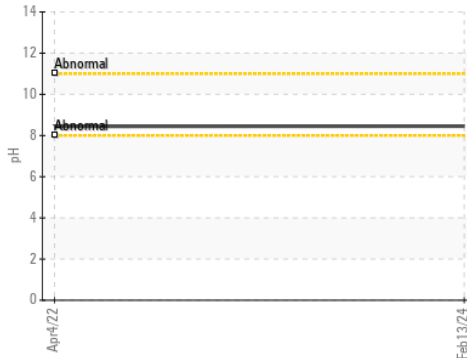
Copper/Aluminum/Lead



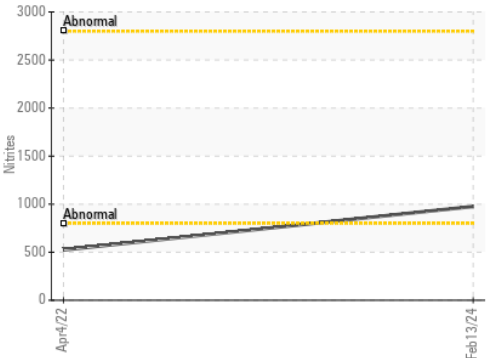
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX014742
Lab Number : 06123300
Unique Number : 10937451
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

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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)