



COOLANT REPORT

CORROSION	SEVERE
CONTAMINANTS	NORMAL
COOLANT CONDITION	NORMAL

Area
THUNDER SPIRIT [200009532]
 Machine Id
13WEA84015 (S/N 72802187376)
 Component
Coolant
 Fluid
HYBRID (HOAT) COOLANT (--- QTS)

RECOMMENDATION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NX014766	NX011133	NX010538
Sample Date		Client Info		07 Mar 2024	06 Oct 2022	01 Mar 2022
Machine Age	hrs	Client Info		4950	51044	46125
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	ABNORMAL

CORROSION

Metal levels indicate corrosion in the cooling system.

Iron	ppm	ASTM D6130	>15	▲ 31	2	▲ 21
Aluminum	ppm	ASTM D6130	>10	2	1	<1
Copper	ppm	ASTM D6130	>10	1	2	<1
Lead	ppm	ASTM D6130	>10	1	1	0
Tin	ppm	ASTM D6130	>10	0	<1	0
Zinc	ppm	ASTM D6130	>10	8	<1	4

CONTAMINANTS

There is no indication of any contamination in the coolant.

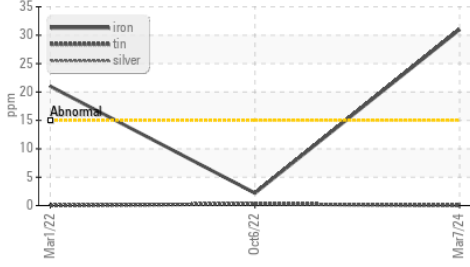
Calcium	ppm	ASTM D6130		1	15	2
Chlorine	ppm	ASTM D6130		22	16	0
Magnesium	ppm	ASTM D6130		3	3	<1
Total Dissolved Solids				302.5	196.0	267.0
Coolant Appearance		*Visual	Clear	normal	normal	normal

COOLANT CONDITION

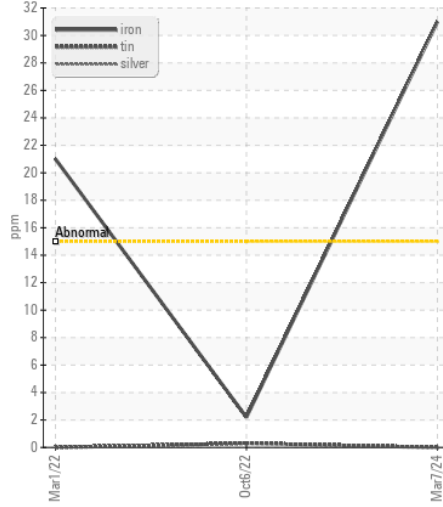
Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

Boiling Point	°C	WC Method		228	---	---
Specific Gravity		*ASTM D1298		1.075	1.078	1.076
pH	Scale 0-14	ASTM D1287		8.31	7.82	8.59
Nitrites	ppm	AP-053:2009		936	636	712
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321		56.3	58.2	56.4
Freezing Point	°F	ASTM D3321		-50	-54	-50
Carboxylate				n/a	fail	n/a
Silicon	ppm	ASTM D6130		48	27	33
Phosphorus	ppm	ASTM D6130		1120	1993	903
Boron	ppm	ASTM D6130		171	344	312
Molybdenum	ppm	ASTM D6130		196	14	214
Sodium	ppm	ASTM D6130		568	498	514
Potassium	ppm	ASTM D6130		3093	5654	1791
Coolant Color		*Visual		Pink	Orange	Yellow

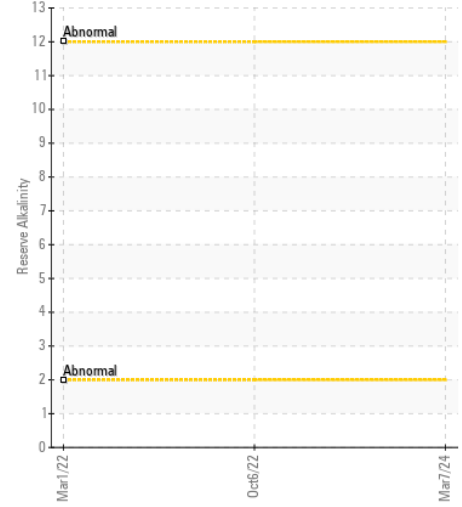
▲ Iron/Tin/Silver



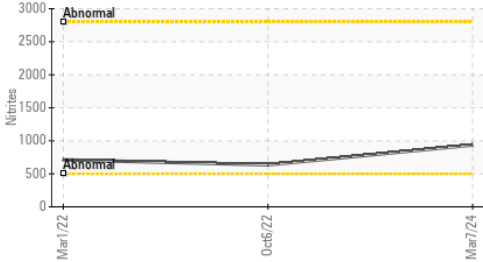
▲ Iron/Tin/Silver



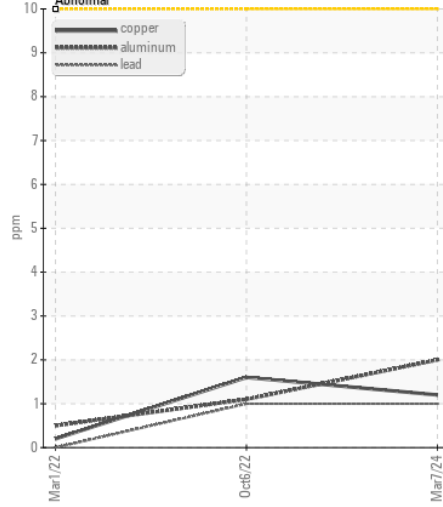
Reserve Alkalinity



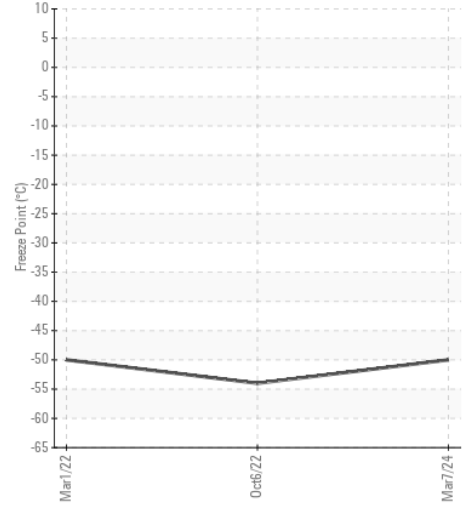
Nitrites



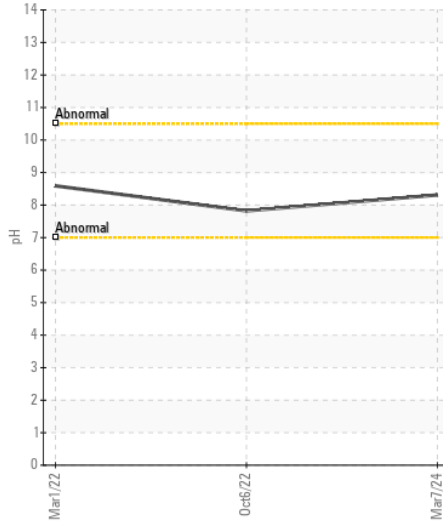
Copper/Aluminum/Lead



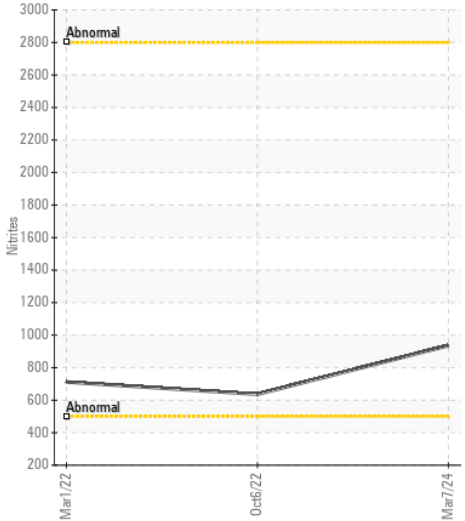
Freeze Point



pH



Nitrites



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX014766
Lab Number : 06123292
Unique Number : 10937443
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

Received : 19 Mar 2024
Tested : 20 Mar 2024
Diagnosed : 22 Mar 2024 - Jonathan Hester

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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)