



COOLANT REPORT

CORROSION	ABNORMAL
CONTAMINANTS	NORMAL
COOLANT CONDITION	NORMAL

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

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

CORROSION

Metal levels indicate corrosion in the cooling system.

Iron	ppm	ASTM D6130	>15	▲ 32	▲ 66	▲ 83
Aluminum	ppm	ASTM D6130	>10	7	7	6
Copper	ppm	ASTM D6130	>10	2	0	1
Lead	ppm	ASTM D6130	>10	1	0	<1
Tin	ppm	ASTM D6130	>10	0	<1	<1
Zinc	ppm	ASTM D6130	>10	5	12	9

CONTAMINANTS

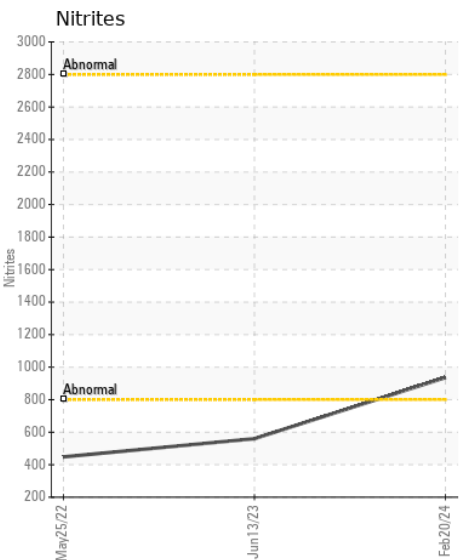
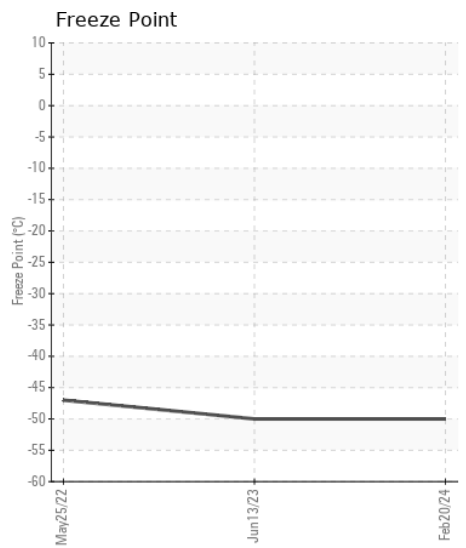
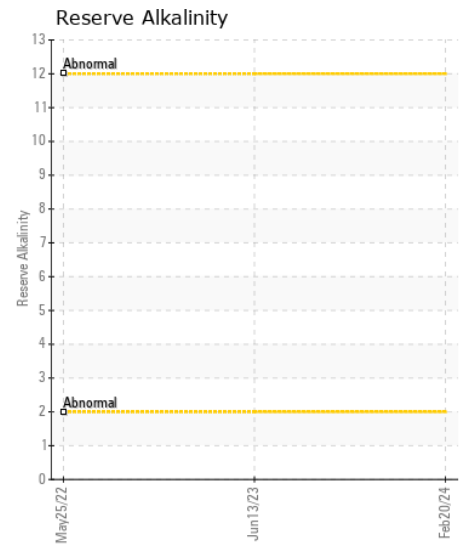
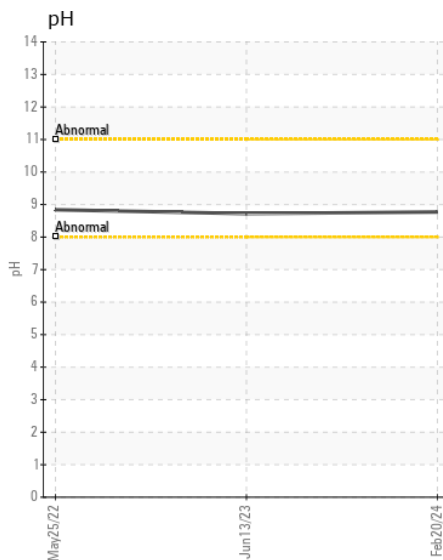
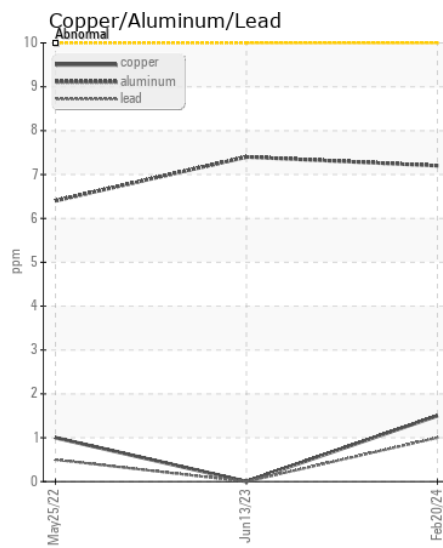
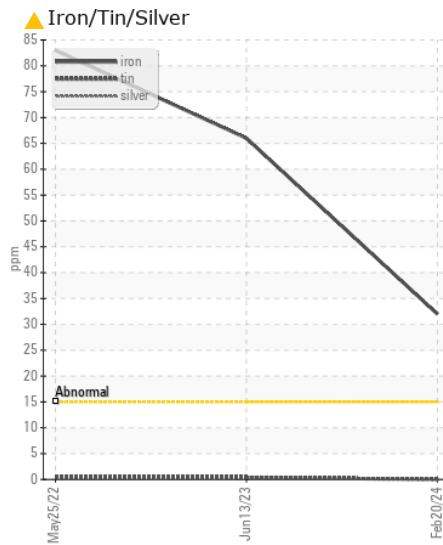
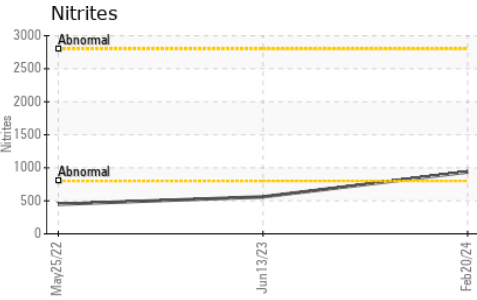
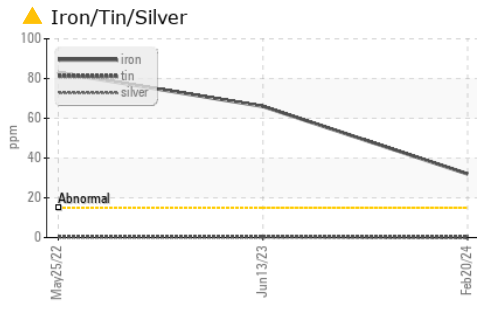
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D6130		<1	0	1
Chlorine	ppm	ASTM D6130		23	21	20
Magnesium	ppm	ASTM D6130		0	<1	<1
Total Dissolved Solids				237.5	254.0	257.0
Coolant Appearance		*Visual	Clear	normal	hazy	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	1.075	1.075
pH	Scale 0-14	ASTM D1287	8.5	8.77	8.72	8.84
Nitrites	ppm	AP-053:2009	260	936	560	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321	45	56.2	56.0	55.7
Freezing Point	°F	ASTM D3321	-24	-50	-50	-47
Carboxylate				n/a	n/a	n/a
Silicon	ppm	ASTM D6130	25	57	79	67
Phosphorus	ppm	ASTM D6130	140	960	1422	847
Boron	ppm	ASTM D6130	0	178	269	260
Molybdenum	ppm	ASTM D6130	1075	159	245	248
Sodium	ppm	ASTM D6130	1075	552	846	539
Potassium	ppm	ASTM D6130	5	2961	4661	1846
Coolant Color		*Visual	DkYlw	Pink	Pink	Orange



Certificate L2367

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)

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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)