



COOLANT REPORT

CORROSION	SEVERE
CONTAMINANTS	NORMAL
COOLANT CONDITION	NORMAL

Area
THUNDER SPIRIT [200009532]
 Machine Id
13WEA84015 (S/N 72802187376)
 Component
Coolant
 Fluid
INTERCOOL ETHYLENE GLYCOL (--- QTS)

RECOMMENDATION

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NX016643	NX014766	NX011133
Sample Date		Client Info		07 May 2024	07 Mar 2024	06 Oct 2022
Machine Age	hrs	Client Info		61806	4950	51044
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	SEVERE	NORMAL

CORROSION

Metal levels are high indicating corrosion in the cooling system.

Iron	ppm	ASTM D6130	>15	▲ 64	▲ 31	2
Aluminum	ppm	ASTM D6130	>10	0	2	1
Copper	ppm	ASTM D6130	>10	1	1	2
Lead	ppm	ASTM D6130	>10	0	1	1
Tin	ppm	ASTM D6130	>10	0	0	<1
Zinc	ppm	ASTM D6130	>10	3	8	<1

CONTAMINANTS

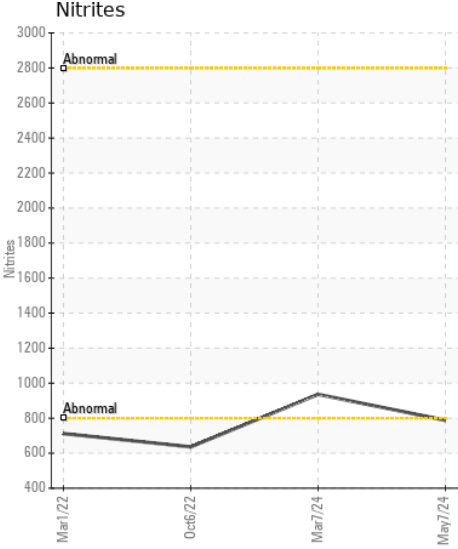
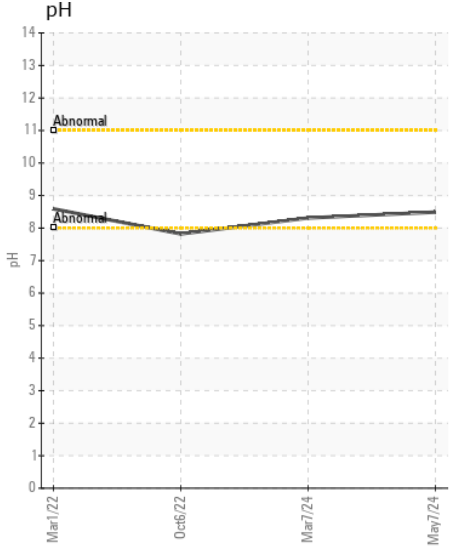
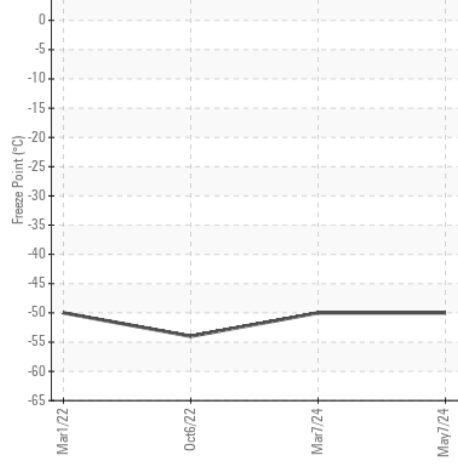
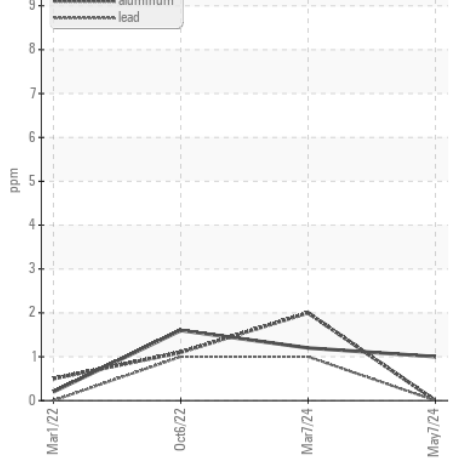
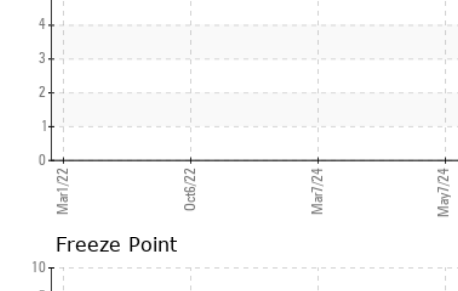
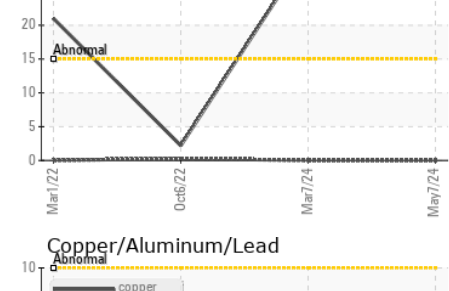
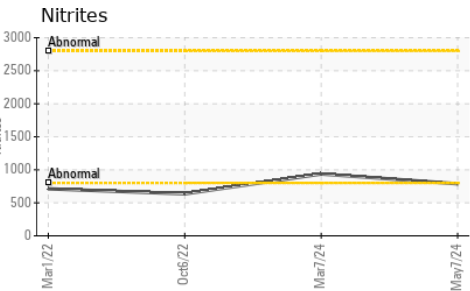
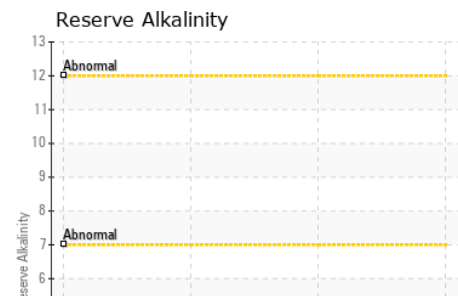
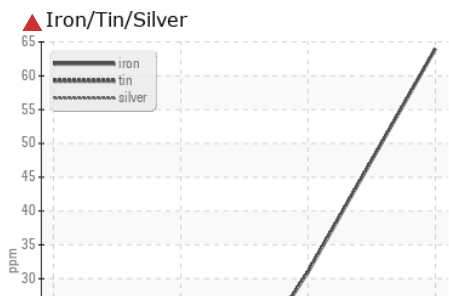
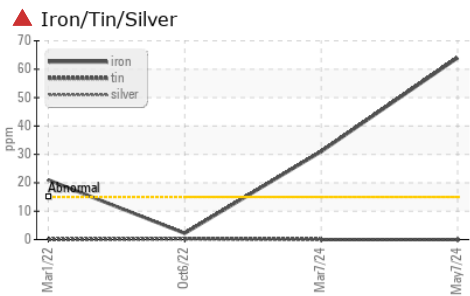
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D6130		0	1	15
Chlorine	ppm	ASTM D6130		13	22	16
Magnesium	ppm	ASTM D6130		1	3	3
Total Dissolved Solids				235.5	302.5	196.0
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	228	---
Specific Gravity		*ASTM D1298		1.075	1.075	1.078
pH	Scale 0-14	ASTM D1287		8.49	8.31	7.82
Nitrites	ppm	AP-053:2009		788	936	636
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321		56.3	56.3	58.2
Freezing Point	°F	ASTM D3321		-50	-50	-54
Carboxylate				n/a	n/a	fail
Silicon	ppm	ASTM D6130		65	48	27
Phosphorus	ppm	ASTM D6130		1487	1120	1993
Boron	ppm	ASTM D6130		300	171	344
Molybdenum	ppm	ASTM D6130		192	196	14
Sodium	ppm	ASTM D6130		953	568	498
Potassium	ppm	ASTM D6130		3887	3093	5654
Coolant Color		*Visual		Orange	Pink	Orange



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX016643
Lab Number : 06190902
Unique Number : 11047654
Test Package : COOL- (Additional Tests: BoilingPoint, COOL, GlycolType, ICP)

NORDEX USA - Chicago
 300 SOUTH WACKER DRIVE, SUITE 1500
 CHICAGO, IL
 US 60606
 Contact: DEREK BRACKEL
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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)