



COOLANT REPORT

CORROSION

NORMAL

CONTAMINANTS

SEVERE

COOLANT CONDITION

NORMAL

Area

FRONTIER II [200006776]

Machine Id

09WEA86938

Component

Coolant

Fluid

ISENTHAL VARIDOS 45 (--- LTR)

RECOMMENDATION

We recommend drain/flush system, and refill with 50/50 antifreeze water mixture. We advise an early resample to confirm this situation.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		NX06087880	NX06087888	NX06026986
Sample Date		Client Info		25 Jan 2024	10 Jan 2024	27 Nov 2023
Machine Age	hrs	Client Info		15862	1737	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	NORMAL	NORMAL

CORROSION

All metal levels are normal indicating no corrosion in the cooling system.

Iron	ppm	ASTM D6130	>15	4	3	0
Aluminum	ppm	ASTM D6130	>10	2	1	2
Copper	ppm	ASTM D6130	>10	<1	3	2
Lead	ppm	ASTM D6130	>10	<1	<1	<1
Tin	ppm	ASTM D6130	>10	0	<1	<1
Zinc	ppm	ASTM D6130	>10	1	0	3

CONTAMINANTS

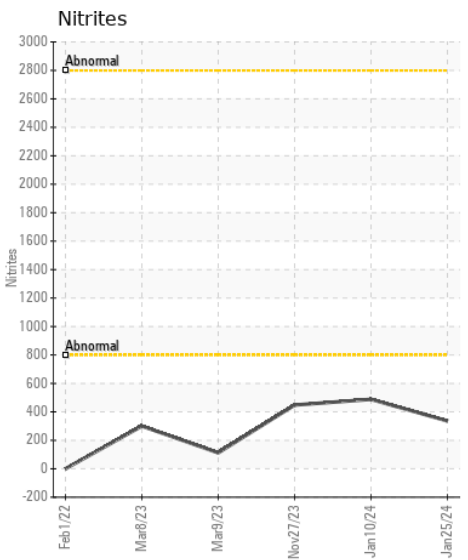
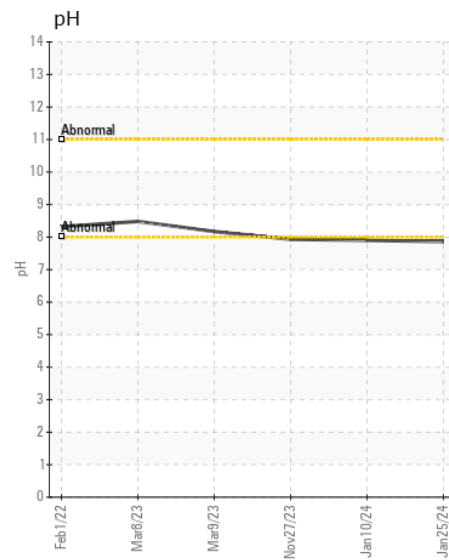
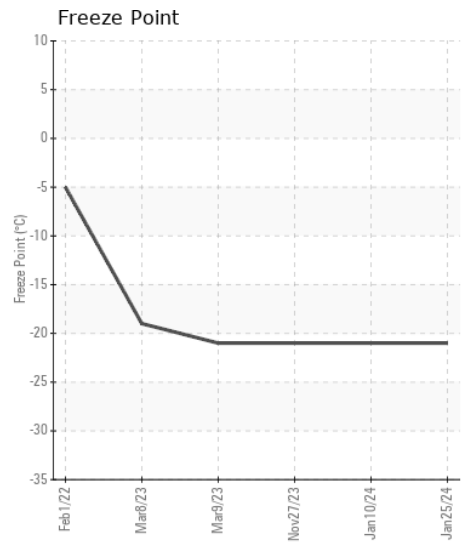
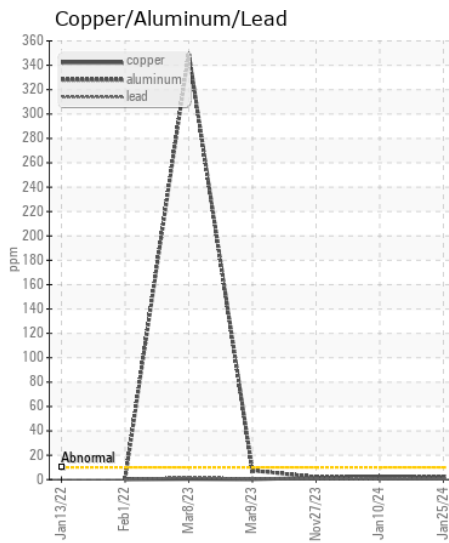
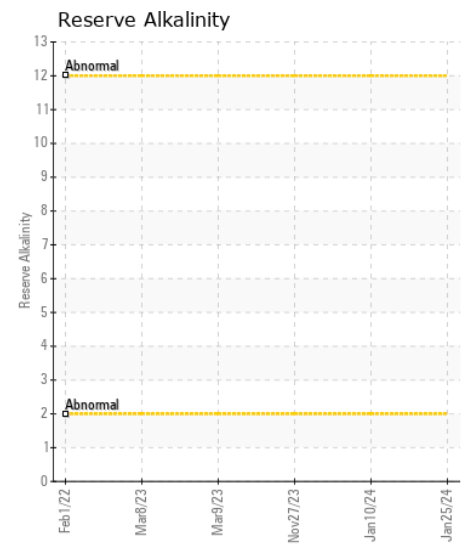
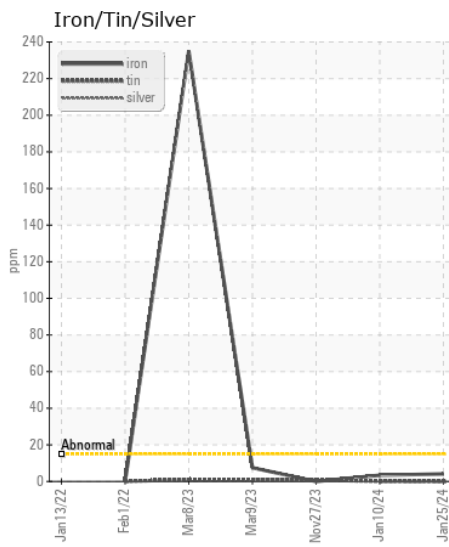
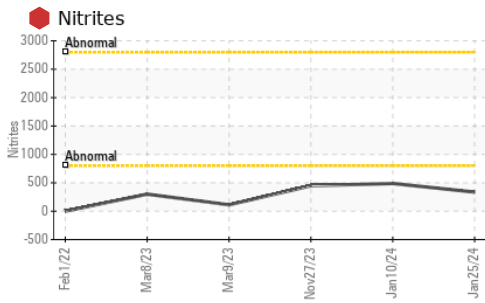
Appearance is unacceptable. High concentration of visible sludge present in the coolant.

Calcium	ppm	ASTM D6130		<1	<1	1
Chlorine	ppm	ASTM D6130		8	3	10
Magnesium	ppm	ASTM D6130		<1	1	<1
Total Dissolved Solids				189.0	279.5	225.0
Coolant Appearance		*Visual	Clear	sediment	normal	normal

COOLANT CONDITION

Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits. The coolant is no longer serviceable.

Specific Gravity		*ASTM D1298		1.060	1.060	1.060
pH	Scale 0-14	ASTM D1287	8.5	7.86	7.90	7.93
Nitrites	ppm	AP-053:2009	260	336	488	448
Reserve Alkalinity	Scale 0-20	*ASTM D1121		---	---	---
Percentage Glycol	%	ASTM D3321	45	44.8	44.9	44.7
Freezing Point	°F	ASTM D3321	-24	-21	-21	-21
Carboxylate				n/a	n/a	n/a
Silicon	ppm	ASTM D6130	25	15	13	66
Phosphorus	ppm	ASTM D6130	140	3	3	0
Boron	ppm	ASTM D6130	0	0	0	0
Molybdenum	ppm	ASTM D6130	1075	140	136	143
Sodium	ppm	ASTM D6130	1075	2512	3168	2230
Potassium	ppm	ASTM D6130	5	338	153	291
Coolant Color		*Visual	DkYlw	Yllow	Yllow	Yllow



Certificate L2367

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

Sample No. : NX06087880

Lab Number : 06087880

Unique Number : 10875325

Test Package : COOL- (Additional Tests: COOL, ICP)

Received : 13 Feb 2024

Tested : 14 Feb 2024

Diagnosed : 19 Feb 2024 - Doug Bogart

NORDEX USA - Chicago

300 SOUTH WACKER DRIVE, SUITE 1500

CHICAGO, IL

US 60606

Contact: DEVIN LINEHAN

DLinehan@nordex-online.com

T: (312)386-4124

F: (312)386-7102

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)