



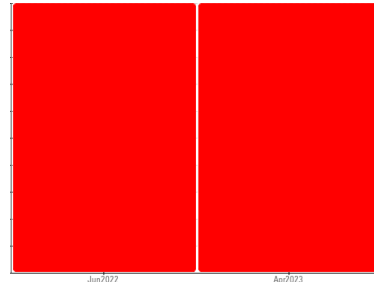
COOLANT REPORT

Sample Rating Trend

WEAR



Area
DAKOTA RANGE III [200006928]
 Machine Id
24WEA87746 - E-02-V
 Component
Coolant
 Fluid
ISENTHAL VARIDOS 45 (--- LTR)



DIAGNOSIS

▲ Recommendation

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

▲ Corrosion

The iron level is severe. The aluminum level is severe.

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		NX05852720	NX05576121	---
Sample Date	Client Info		12 Apr 2023	10 Jun 2022	---
Machine Age	hrs	Client Info	14741	8275	---
Oil Age	hrs	Client Info	14741	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			SEVERE	SEVERE	---

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	*ASTM D1298		1.068	1.068	---
pH	Scale 0-14	ASTM D1287	8.54	8.59	---
Nitrites	ppm	AP-053:2009	336	448	---
Reserve Alkalinity	Scale 0-20	*ASTM D1121	---	---	---
Percentage Glycol	%	ASTM D3321	50.6	50.4	---
Freezing Point	°F	ASTM D3321	-35	-35	---
Total Dissolved Solids			146.0	155.5	---
Carboxylate			n/a	n/a	---

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D6130	41	48	---
Phosphorus	ppm	ASTM D6130	198	145	---
Boron	ppm	ASTM D6130	23	2	---
Molybdenum	ppm	ASTM D6130	1200	1200	---

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D6130	>15 ▲ 158	▲ 157	---
Aluminum	ppm	ASTM D6130	>10 ▲ 30	▲ 50	---
Copper	ppm	ASTM D6130	>10 1	<1	---
Lead	ppm	ASTM D6130	>10 2	1	---
Tin	ppm	ASTM D6130	>10 3	<1	---
Zinc	ppm	ASTM D6130	43	44	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Chlorine	ppm	ASTM D6130	90	66	---

CARRIER SALTS

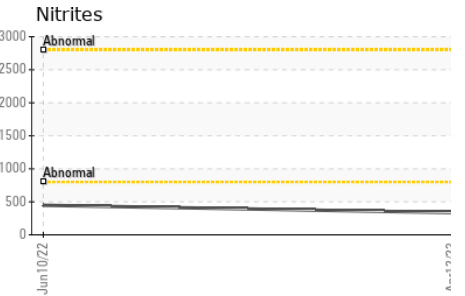
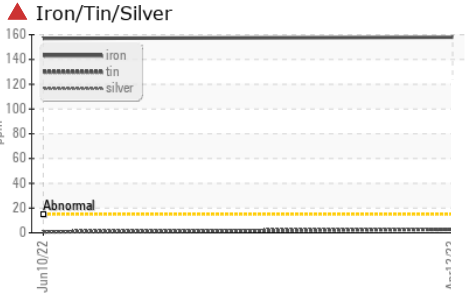
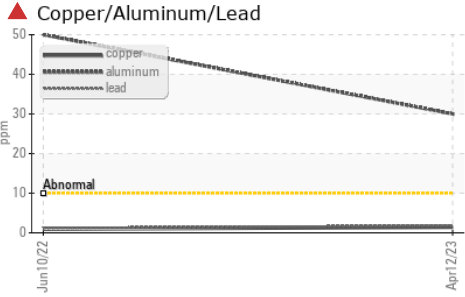
	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D6130	1036	557	---
Potassium	ppm	ASTM D6130	2055	703	---





SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D6130	4	6	---
Magnesium	ppm	ASTM D6130	4	5	---

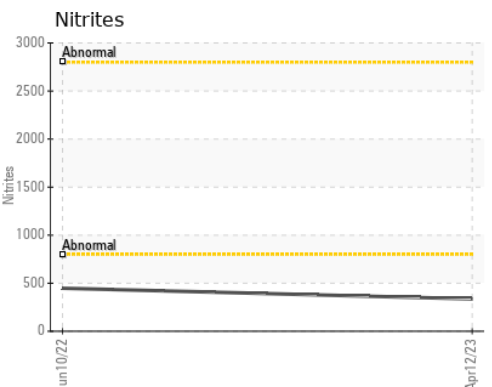
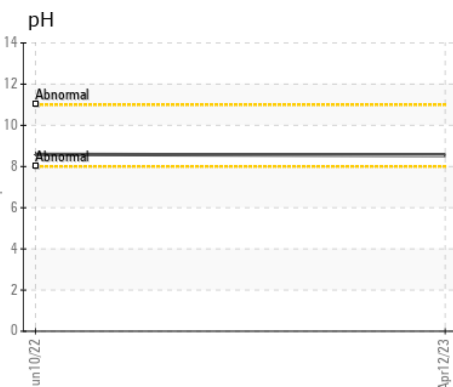
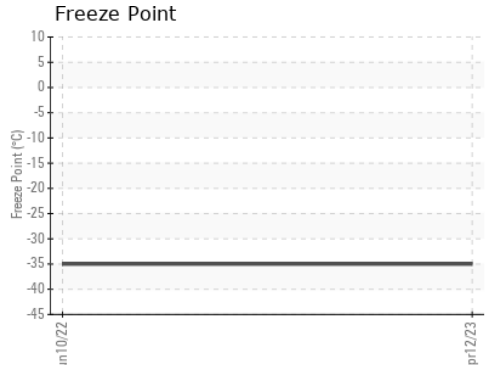
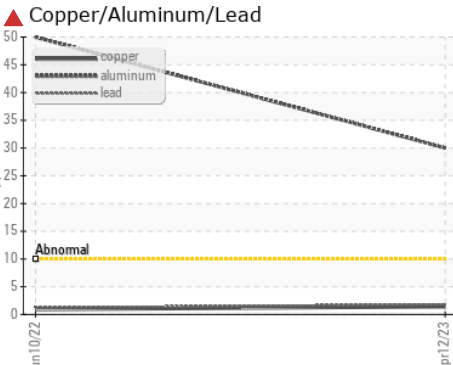
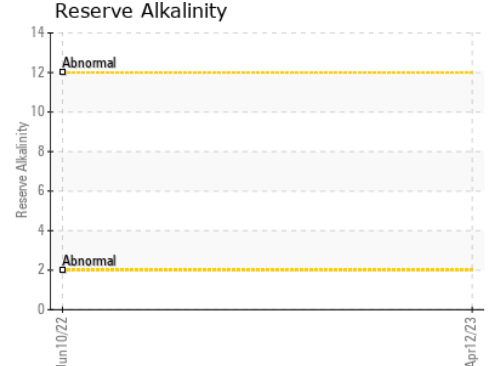
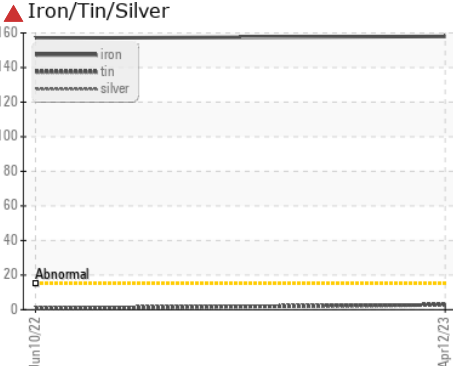


COOLANT REPORT



VISUAL	method	limit/base	current	history1	history2
Coolant Color	*Visual	DkYlw	Black	Yllow	---
Coolant Appearance	*Visual	Clear	normal	normal	---
Color					no image
Bottom					no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : NX05852720 **Received** : 19 May 2023
Lab Number : **05852720** **Tested** : 26 May 2023
Unique Number : 10482075 **Diagnosed** : 04 Jun 2023 - Doug Bogart
Test Package : COOL- (Additional Tests: COOL, 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)