



POWER SYSTEMS
SYSTÈMES DE PUISSANCE

COOLANT REPORT

CORROSION

SEVERE

CONTAMINANTS

ABNORMAL

COOLANT CONDITION

ABNORMAL

Area
VITRAN EXPRESS [235803]

Machine Id
GENERAC A03116

Component
Coolant

Fluid
{not provided} (--- LTR)

RECOMMENDATION

The coolant change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WA0020915	WA0017864	WA0016290
Sample Date		Client Info		15 Feb 2024	27 May 2022	10 Mar 2021
Machine Age	hrs	Client Info		95	91	75
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	N/A	Changed
Sample Status				SEVERE	SEVERE	SEVERE

CORROSION

Iron and lead and tin ppm levels are severe. Aluminum ppm levels are abnormal. The iron level is high indicating rust in the system which clogs the cooling system. The high metal levels indicate corrosion in the system.

Iron	ppm	ASTM D5185(m)	>15	60	333	164
Aluminum	ppm	ASTM D5185(m)	>10	10	12	4
Copper	ppm	ASTM D5185(m)	>10	1	2	2
Lead	ppm	ASTM D5185(m)	>10	60	135	25
Tin	ppm	ASTM D5185(m)	>10	44	109	45
Silver	ppm	ASTM D5185(m)	>10	1	<1	0
Zinc	ppm	ASTM D5185(m)	>10	4	3	4

CONTAMINANTS

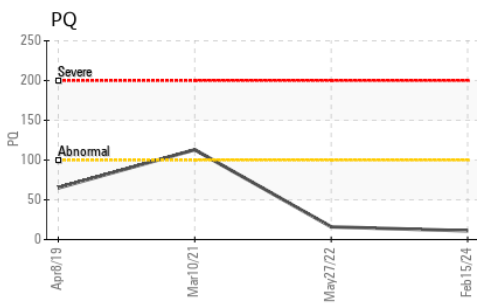
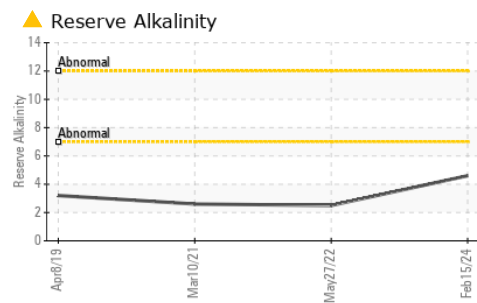
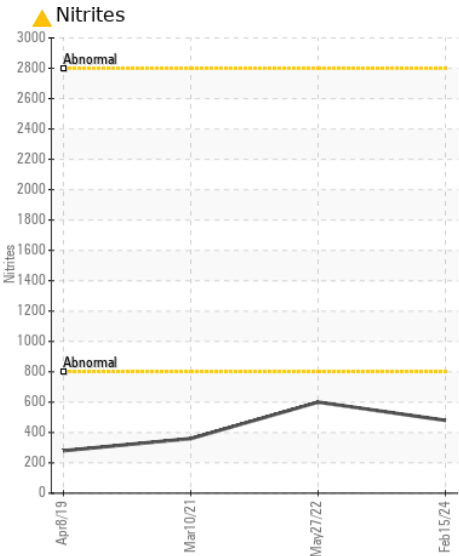
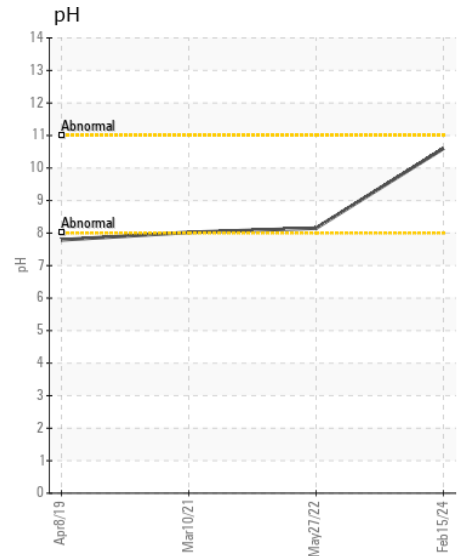
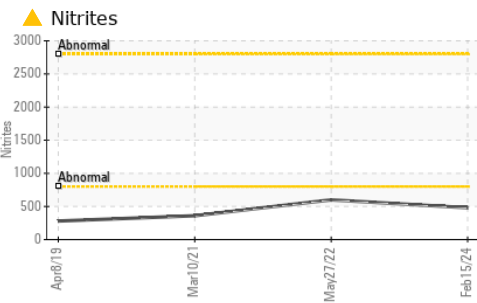
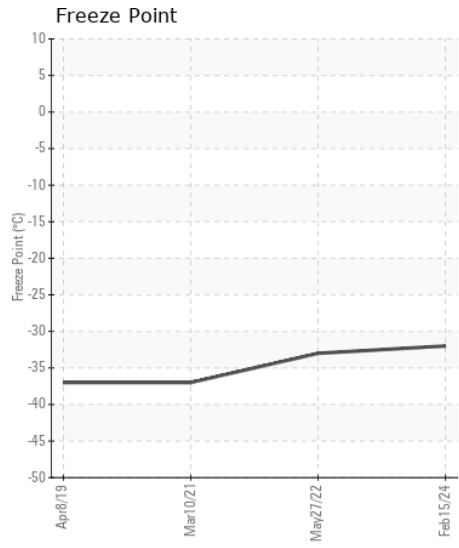
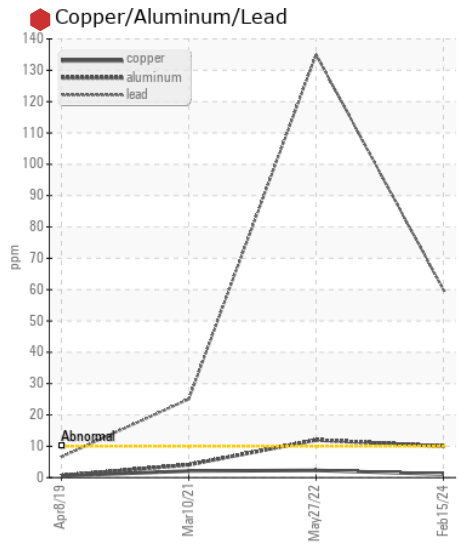
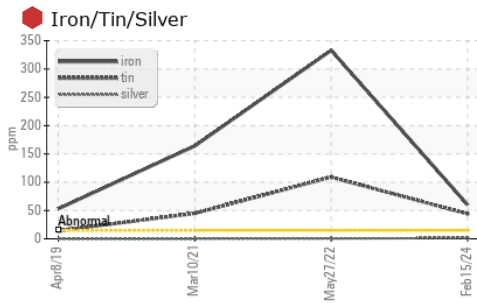
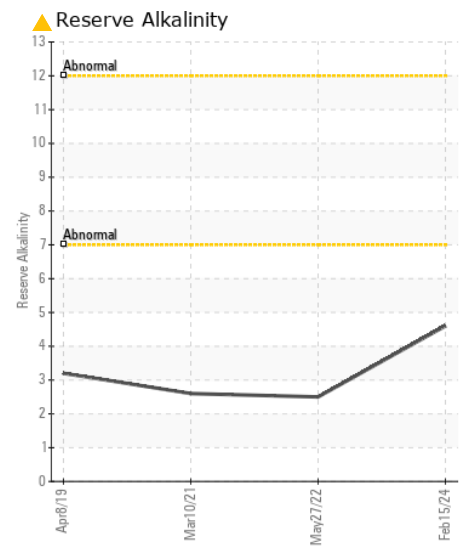
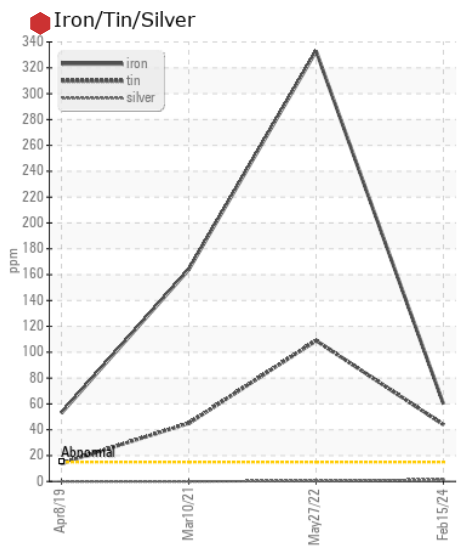
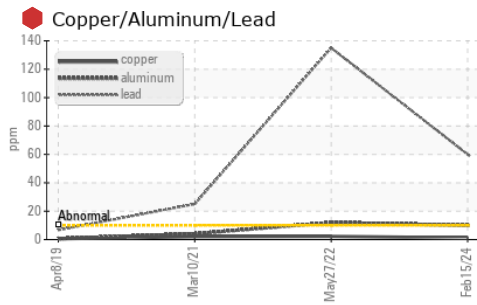
There is no indication of any contamination in the component(unconfirmed).

Calcium	ppm	ASTM D5185(m)	>100	1	4	2
Magnesium	ppm	ASTM D5185(m)	>40	<1	<1	2
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Coolant Appearance		Visual*	Clear	Opaque	Opaque	Very cld

COOLANT CONDITION

The reserve alkalinity of this fluid is lower than acceptable. The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The low nitrite level indicates reduced cavitation protection which leads to corrosion and ammonia formation. The pH level of this fluid is within the acceptable limits.

Specific Gravity		ASTM D1298*		1.063	1.067	1.067
pH	Scale 0-14	ASTM D1287*		10.6	8.15	8.02
Nitrites	ppm	Alcan Test Kit*		480	600	360
Reserve Alkalinity	Scale 0-20	ASTM D1121*		4.6	2.5	2.6
Percentage Glycol	%	ASTM D3321*		46.7	49.3	50.0
Freezing Point	°C	ASTM D3321*		-32	-33	-37
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		24	14	15
Phosphorus	ppm	ASTM D5185(m)		66	21	28
Boron	ppm	ASTM D5185(m)		247	232	230
Molybdenum	ppm	ASTM D5185(m)		29	3	3
Sodium	ppm	ASTM D5185(m)		3100	811	898
Potassium	ppm	ASTM D5185(m)		704	1680	2079
Coolant Color		Visual*		Grn/Yellow	Other	Other



ISO 17025:2017
Accredited
Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0020915 **Received** : 21 Feb 2024
Lab Number : 02617266 **Tested** : 26 Feb 2024
Unique Number : 5734376 **Diagnosed** : 26 Feb 2024 - Kevin Marson
Test Package : COOL (Additional Tests: BottomAnalysis, FILTERPATCH, GlycolType, PQ)

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.