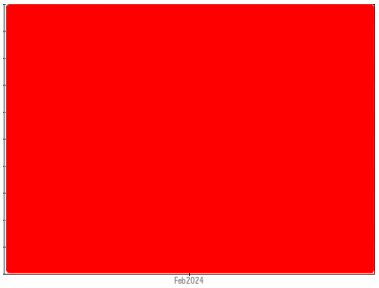
COOLANT REPORT

Sample Rating Trend



WEAR

Machine Id
101016
Component
Coolant
Fluid
EXTENDED LIFE COOLANT (--- GAL)

DIAGNOSIS

Recommendation
We recommend that you drain the system and refill with a 50/50 long-life coolant/water mixture. We recommend an early resample to monitor this condition.

Corrosion
Aluminum ppm levels are severe. Iron 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.

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

Coolant Condition
The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. The pH is low which causes rust formation. The reserve alkalinity of this fluid is acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**GFL0108240**	---	---
Sample Date		Client Info		**15 Feb 2024**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**SEVERE**	---	---

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		**1.057**	---	---
pH	Scale 0-14	ASTM D1287*	9.0	▲ **6.85**	---	---
Nitrites	ppm	Alcan Test Kit*		**320**	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*		**3.9**	---	---
Percentage Glycol	%	ASTM D3321*	50	**42.4**	---	---
Freezing Point	°C	ASTM D3321*	-40	**-27**	---	---
Boiling Point	°C	WC Method*		**106**	---	---
Carboxylate				**---**	---	---

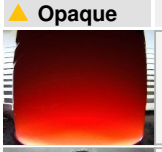
CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**77**	---	---
Phosphorus	ppm	ASTM D5185(m)		**36**	---	---
Boron	ppm	ASTM D5185(m)		**6**	---	---
Molybdenum	ppm	ASTM D5185(m)		**166**	---	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	▲ **66**	---	---
Aluminum	ppm	ASTM D5185(m)	>10	⬢ **142**	---	---
Copper	ppm	ASTM D5185(m)	>10	**<1**	---	---
Lead	ppm	ASTM D5185(m)	>10	**0**	---	---
Tin	ppm	ASTM D5185(m)	>10	**0**	---	---
Silver	ppm	ASTM D5185(m)	>10	**<1**	---	---
Zinc	ppm	ASTM D5185(m)		**10**	---	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**7145**	---	---
Potassium	ppm	ASTM D5185(m)		**978**	---	---

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**29**	---	---
Magnesium	ppm	ASTM D5185(m)	>40	**8**	---	---
Hardness	mg/L CaCO3	In-house*	<75	⬢ **106**	---	---

COOLANT REPORT

VISUAL	method	limit/base	current	history1	history2
Coolant Color	Visual*	Orange/R	**Red**	---	---
Coolant Appearance	Visual*	Clear	▲ **Opaque**	---	---
Color				no image	no image
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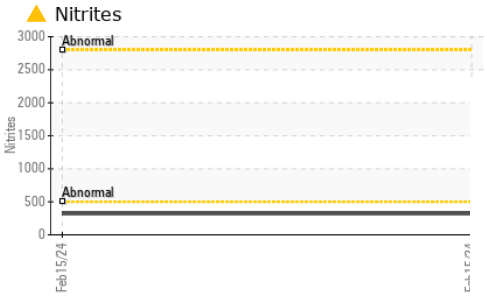
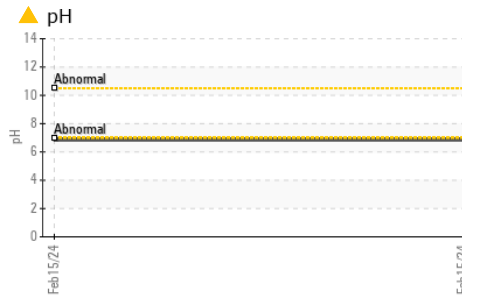
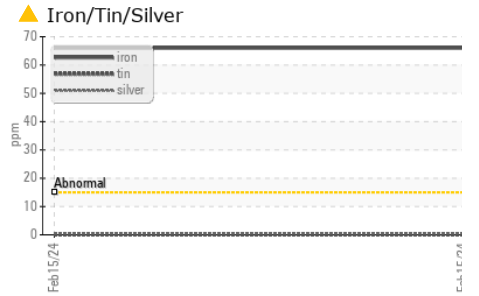
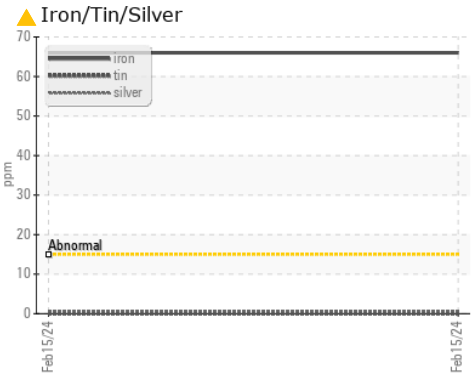
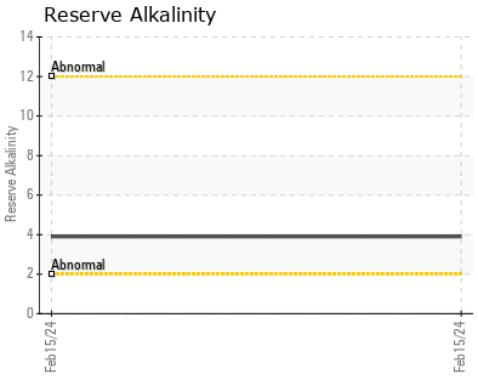
GRAPHS

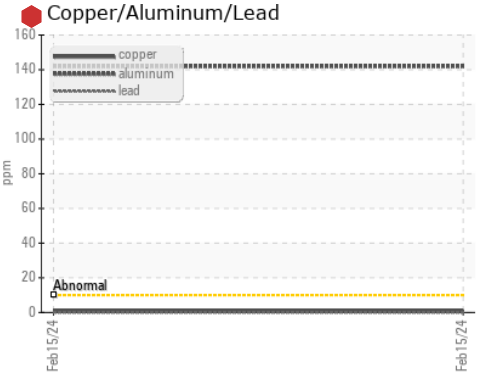


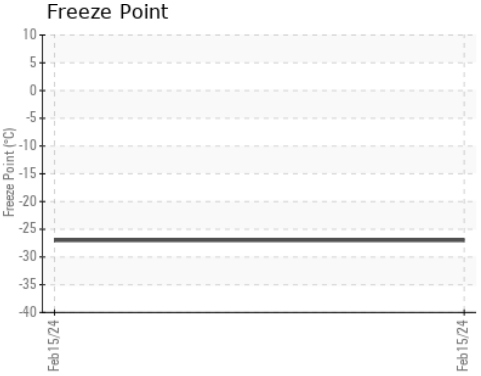


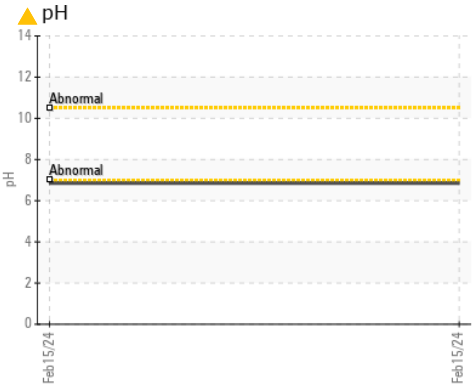


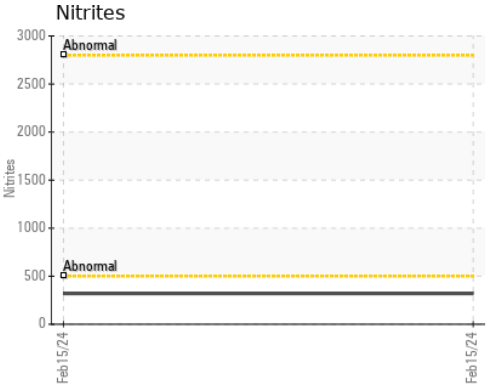












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : GFL0108240
Lab Number : 02616475
Unique Number : 5733585
Test Package : COOL (Additional Tests: GlycolType, PQ)

Received : 16 Feb 2024
Tested : 21 Feb 2024
Diagnosed : 21 Feb 2024 - Kevin Marson

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.

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