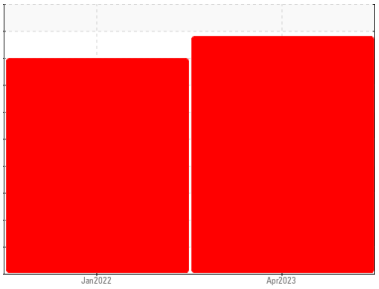
COOLANT REPORT

Sample Rating Trend



WEAR

Area
HUMBER RIVER HOSPITAL [85092]
Machine Id
D16*069150*C3*A
Component
Coolant
Fluid
CONVENTIONAL COOLANT (--- GAL)

DIAGNOSIS

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

Corrosion
Iron 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.

Contaminants
There is no indication of any contamination in the coolant.

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WA0018501**	WA0017181	---
Sample Date		Client Info		**26 Apr 2023**	26 Jan 2022	---
Machine Age	hrs	Client Info		**267**	227	---
Oil Age	hrs	Client Info		**0**	0	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**SEVERE**	SEVERE	---

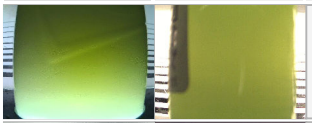
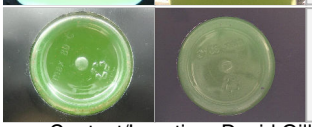
PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		**1.064**	1.065	---
pH	Scale 0-14	ASTM D1287*	9.5	▲ **7.80**	▲ 7.23	---
Nitrites	ppm	Alcan Test Kit*	1500	**880**	1720	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	**3.3**	2.7	---
Percentage Glycol	%	ASTM D3321*	50	**47.1**	48.0	---
Freezing Point	°C	ASTM D3321*	-40	**-28**	-34	---
Carboxylate				**---**	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**35**	46	---
Phosphorus	ppm	ASTM D5185(m)		**39**	47	---
Boron	ppm	ASTM D5185(m)		**316**	304	---
Molybdenum	ppm	ASTM D5185(m)		**2**	4	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	⬢ **210**	⬢ 100	---
Aluminum	ppm	ASTM D5185(m)	>10	▲ **39**	6	---
Copper	ppm	ASTM D5185(m)	>10	**5**	<1	---
Lead	ppm	ASTM D5185(m)	>10	**2**	<1	---
Tin	ppm	ASTM D5185(m)	>10	**<1**	<1	---
Silver	ppm	ASTM D5185(m)	>10	**0**	<1	---
Zinc	ppm	ASTM D5185(m)		**42**	9	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**2223**	1767	---
Potassium	ppm	ASTM D5185(m)		**262**	303	---

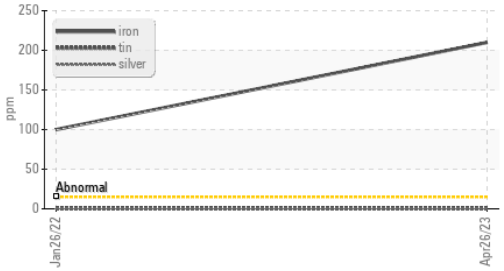
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**12**	6	---
Magnesium	ppm	ASTM D5185(m)	>40	**5**	4	---
Hardness	mg/L CaCO3	In-house*	<75	**49**	31	---

VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*	Green	**Green**	Green	---
Coolant Appearance		Visual*	Clear	▲ **Very cld**	▲ Cloudy	---
Color						no image
Bottom						no image

COOLANT REPORT

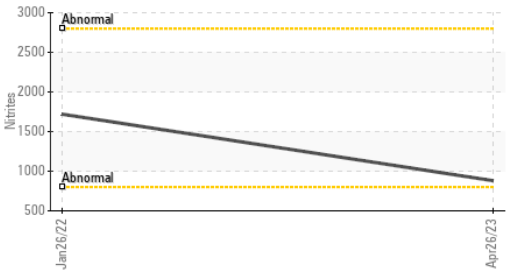
GRAPHS

Iron/Tin/Silver

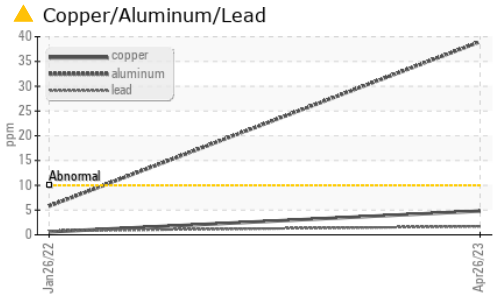


pH

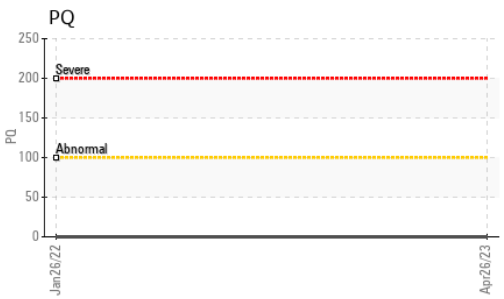
Nitrites



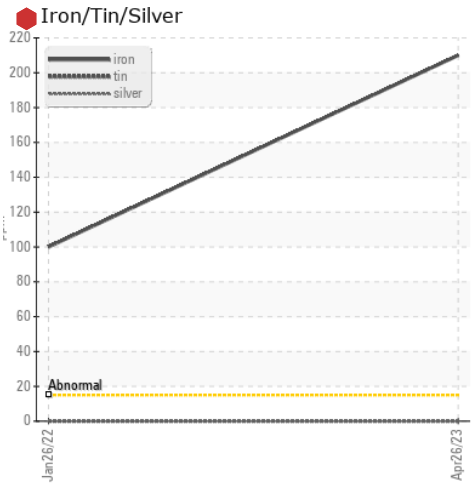
Copper/Aluminum/Lead



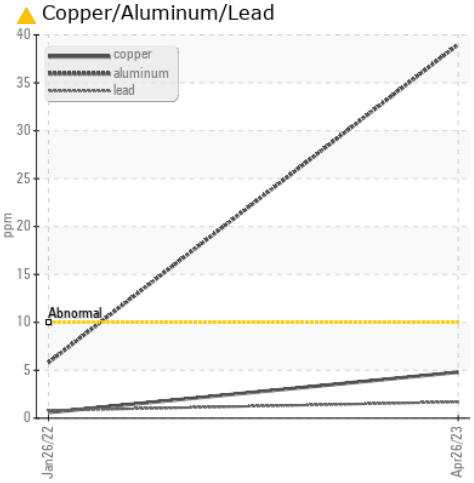
PQ



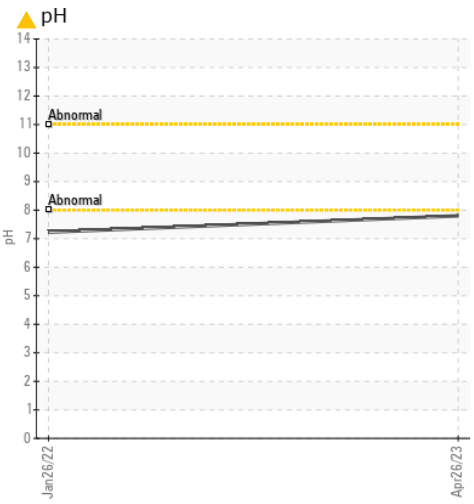
Iron/Tin/Silver



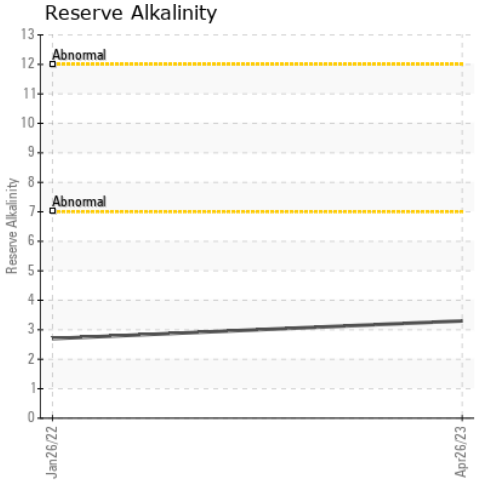
Copper/Aluminum/Lead



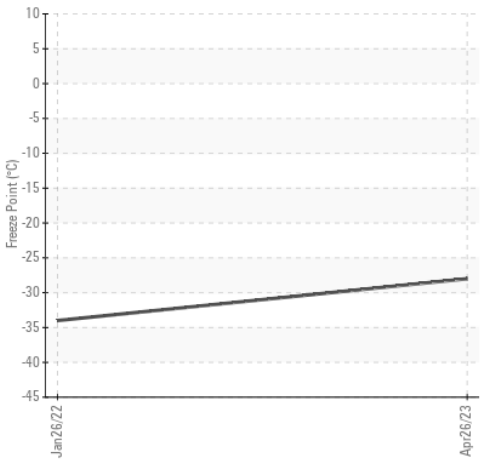
pH



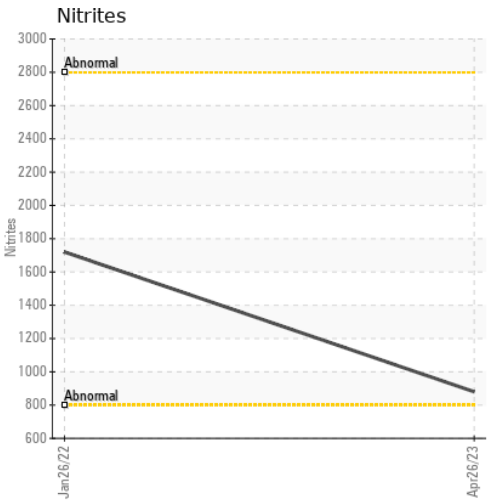
Reserve Alkalinity



Freeze Point



Nitrites



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WA0018501	**Received**	: 04 May 2023
Lab Number	: 02555618	**Diagnosed**	: 05 May 2023
Unique Number	: 5568633	**Diagnostician**	: Kevin Marson
Test Package	: COOL (Additional Tests: PQ)		

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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