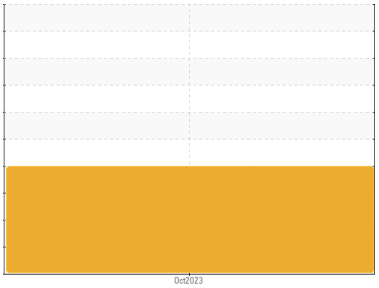
COOLANT REPORT

Sample Rating Trend



SCAS

Machine Id
420-71
Component
Coolant
Fluid
CONVENTIONAL COOLANT (--- GAL)

DIAGNOSIS

Recommendation
We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer`s specifications. Resample at the next service interval to monitor.

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

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

Coolant Condition
The reserve alkalinity of this fluid is lower than acceptable. The low nitrite level indicates reduced cavitation protection which leads to corrosion and ammonia formation. The pH is low which causes rust formation.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0851995**	---	---
Sample Date		Client Info		**05 Oct 2023**	---	---
Machine Age	hrs	Client Info		**0**	---	---
Oil Age	hrs	Client Info		**0**	---	---
Oil Changed		Client Info		**N/A**	---	---
Sample Status				**ABNORMAL**	---	---

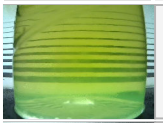
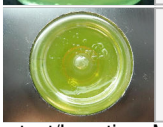
PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Specific Gravity		ASTM D1298*		**1.068**	---	---
pH	Scale 0-14	ASTM D1287*	9.5	▲ **7.68**	---	---
Nitrites	ppm	Alcan Test Kit*	1500	▲ **440**	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	▲ **4.9**	---	---
Percentage Glycol	%	ASTM D3321*	50	**50.8**	---	---
Freezing Point	°C	ASTM D3321*	-40	**-35**	---	---
Carboxylate				**---**	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**12**	---	---
Phosphorus	ppm	ASTM D5185(m)		**47**	---	---
Boron	ppm	ASTM D5185(m)		**161**	---	---
Molybdenum	ppm	ASTM D5185(m)		**22**	---	---

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**0**	---	---
Aluminum	ppm	ASTM D5185(m)	>10	**1**	---	---
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)		**0**	---	---

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**1000**	---	---
Potassium	ppm	ASTM D5185(m)		**13180**	---	---

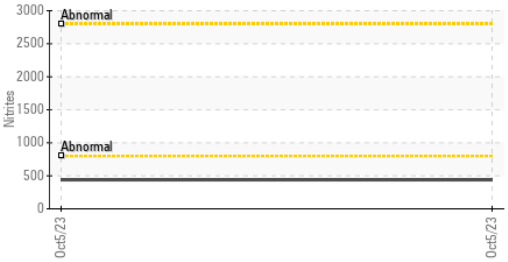
SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**3**	---	---
Magnesium	ppm	ASTM D5185(m)	>40	**3**	---	---
Hardness	mg/L CaCO3	In-house*	<75	**17**	---	---

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

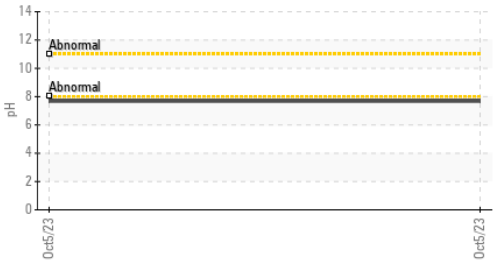
COOLANT REPORT

GRAPHS

Nitrites

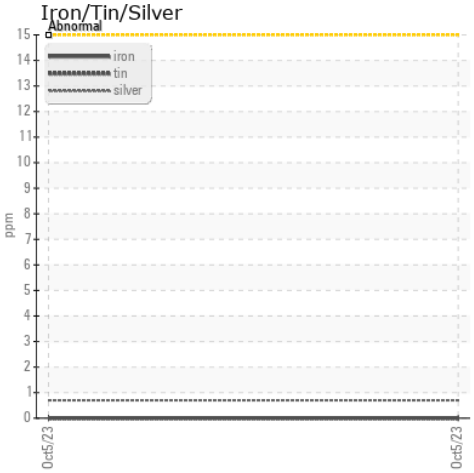


pH

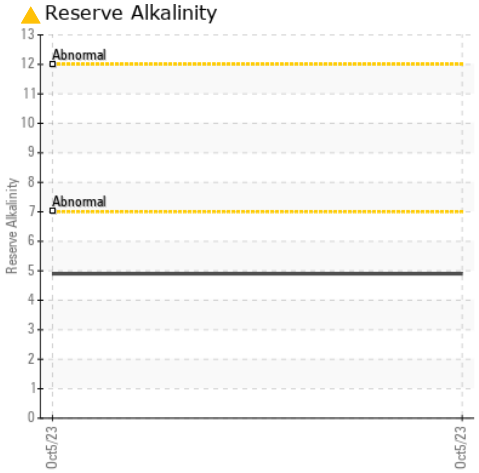


Reserve Alkalinity

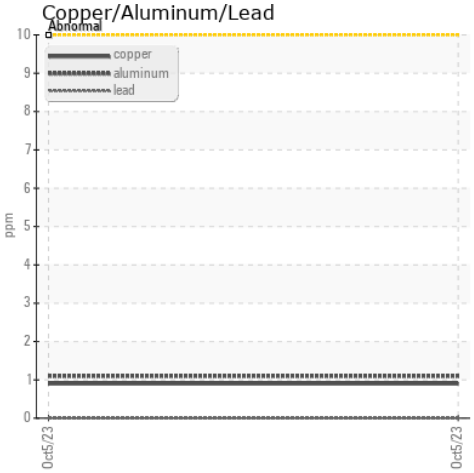
Iron/Tin/Silver



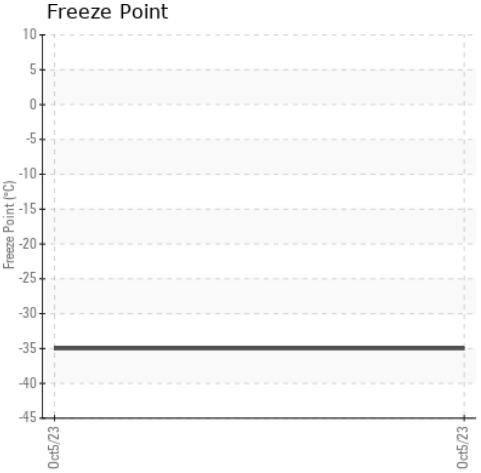
Reserve Alkalinity



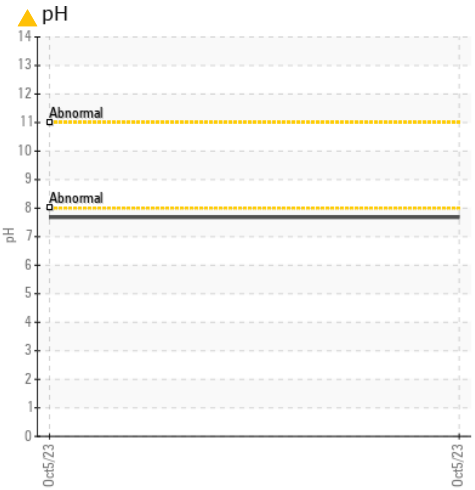
Copper/Aluminum/Lead



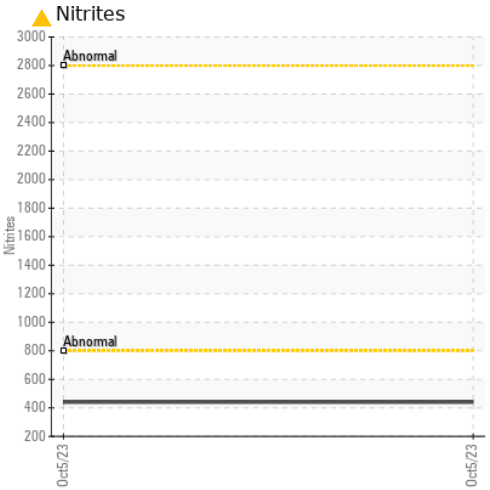
Freeze Point



pH



Nitrites



ISO 17025:2017 Accredited Laboratory

Laboratory	: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9		
Sample No.	: WC0851995	**Received**	: 06 Oct 2023
Lab Number	: 02587868	**Diagnosed**	: 10 Oct 2023
Unique Number	: 5656934	**Diagnostician**	: Kevin Marson
Test Package	: COOL		

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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