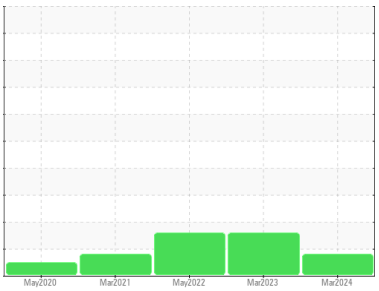
COOLANT REPORT

Sample Rating Trend



WEAR

Machine Id
CUMMINS 1671 - DERT PORTABLE GENSET #1
Component
Coolant
Fluid
HYBRID (HOAT) 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. We recommend an early resample to monitor this condition.

Corrosion
Copper ppm levels are abnormal. The high metal levels indicate corrosion in the system.

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

Coolant Condition
The nitrite level is acceptable. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0896287**	WC0774095	WC0655199
Sample Date		Client Info		**28 Mar 2024**	20 Mar 2023	18 May 2022
Machine Age	hrs	Client Info		**789**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

PHYSICAL TEST RESULTS		method	limit/base	current	history1	history2
Glycol Type		FT-IR		**UNK**	---	---
Specific Gravity		ASTM D1298*		**1.077**	1.077	1.073
pH	Scale 0-14	ASTM D1287*		**9.71**	9.73	9.67
Nitrites	ppm	Alcan Test Kit*		**1600**	1600	1600
Reserve Alkalinity	Scale 0-20	ASTM D1121*		**6.6**	3.9	3.9
Percentage Glycol	%	ASTM D3321*		**58.0**	57.5	54.9
Freezing Point	°C	ASTM D3321*		**-48**	-52	-45
Carboxylate				**---**	---	---

CORROSION INHIBITORS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)		**38**	55	47
Phosphorus	ppm	ASTM D5185(m)		**64**	76	73
Boron	ppm	ASTM D5185(m)		**158**	209	208
Molybdenum	ppm	ASTM D5185(m)		**17**	35	38

CORROSION		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>15	**0**	4	<1
Aluminum	ppm	ASTM D5185(m)	>10	**0**	1	2
Copper	ppm	ASTM D5185(m)	>10	▲ **34**	▲ 38	▲ 26
Lead	ppm	ASTM D5185(m)	>10	**5**	▲ 14	▲ 10
Tin	ppm	ASTM D5185(m)	>10	**0**	2	<1
Silver	ppm	ASTM D5185(m)	>10	**<1**	4	<1
Zinc	ppm	ASTM D5185(m)		**2**	4	1

CARRIER SALTS		method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)		**1456**	1444	1211
Potassium	ppm	ASTM D5185(m)		**1071**	1187	1243

SCALE POTENTIAL		method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m)	>100	**3**	0	2
Magnesium	ppm	ASTM D5185(m)	>40	**2**	2	<1
Hardness	mg/L CaCO3	In-house*	<75	**13**	9	8

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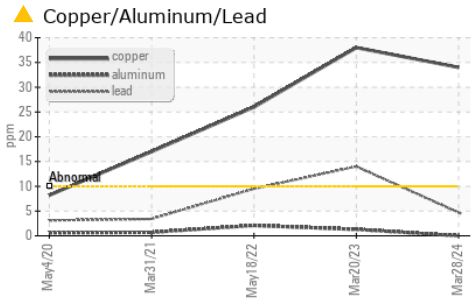
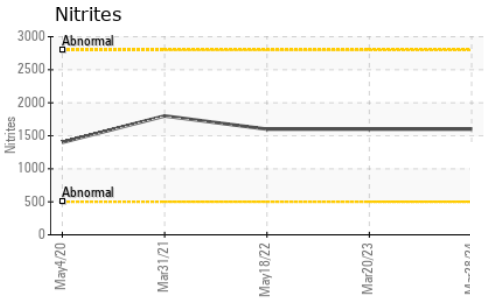
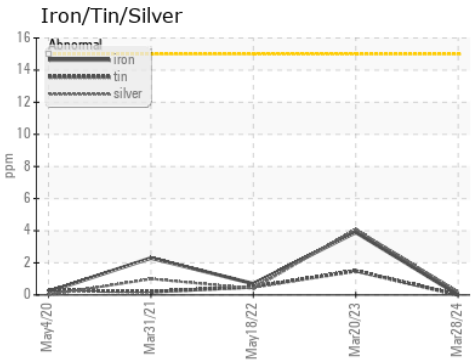
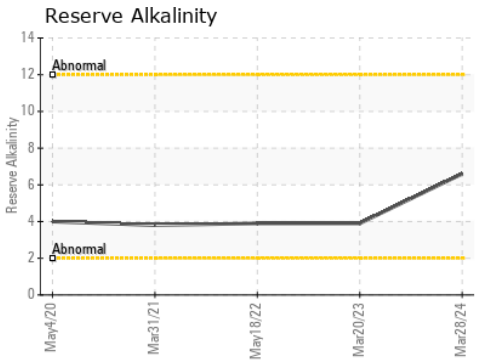


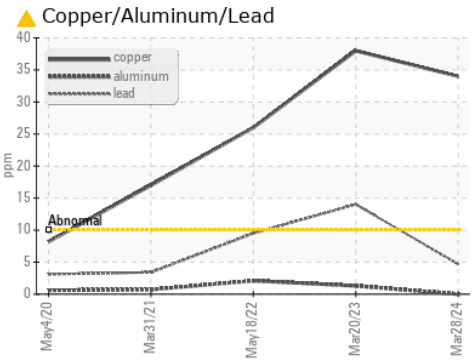


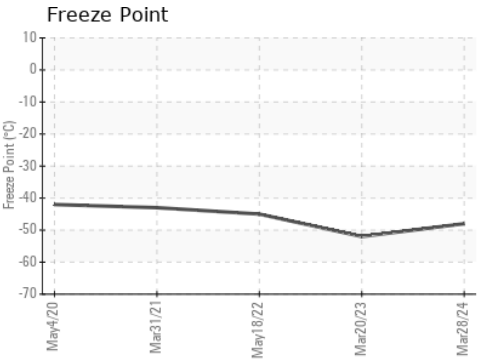
VISUAL		method	limit/base	current	history1	history2
Coolant Color		Visual*		**Orange**	Orange	Pink
Coolant Appearance		Visual*	Clear	**Clear**	Clear	Clear
Color						
Bottom						

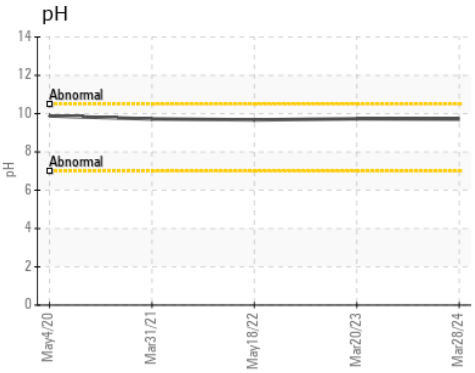
GRAPHS

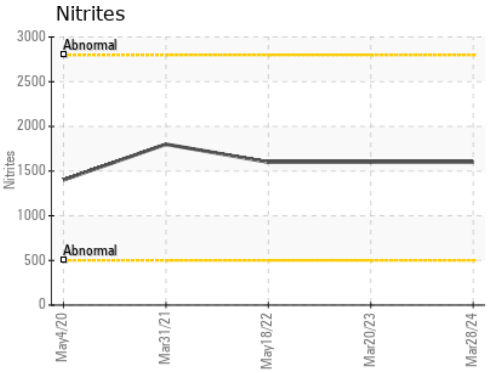












ISO 17025:2017 Accredited Laboratory

Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0896287 **Received** : 09 Apr 2024
Lab Number : 02627749 **Tested** : 09 Apr 2024
Unique Number : 5760881 **Diagnosed** : 10 Apr 2024 - Kevin Marson
Test Package : COOL (Additional Tests: GlycolType)

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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