



COOLANT REPORT

Sample Rating Trend

WEAR



Machine Id
OJ031572

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. The high metal levels indicate corrosion in the 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 glycol level is too high which leads to over-heating and additive drop-out. 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		WC0857578	---	---
Sample Date	Client Info		16 Oct 2023	---	---
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*		1.088	---	---
pH	Scale 0-14	ASTM D1287* 9.0	6.55	---	---
Nitrites	ppm	Alcan Test Kit*	480	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	1.2	---	---
Percentage Glycol	%	ASTM D3321* 50	68.3	---	---
Freezing Point	°C	ASTM D3321* -40	-66	---	---
Carboxylate			---	---	---

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	93	---	---
Phosphorus	ppm	ASTM D5185(m)	72	---	---
Boron	ppm	ASTM D5185(m)	205	---	---
Molybdenum	ppm	ASTM D5185(m)	43	---	---

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >15	14	---	---
Aluminum	ppm	ASTM D5185(m) >10	22	---	---
Copper	ppm	ASTM D5185(m) >10	2	---	---
Lead	ppm	ASTM D5185(m) >10	0	---	---
Tin	ppm	ASTM D5185(m) >10	0	---	---
Silver	ppm	ASTM D5185(m) >10	2	---	---
Zinc	ppm	ASTM D5185(m)	8	---	---

CARRIER SALTS



	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	3627	---	---
Potassium	ppm	ASTM D5185(m)	4476	---	---

SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m) >100	10	---	---
Magnesium	ppm	ASTM D5185(m) >40	3	---	---
Hardness	mg/L CaCO3	In-house* <75	34	---	---

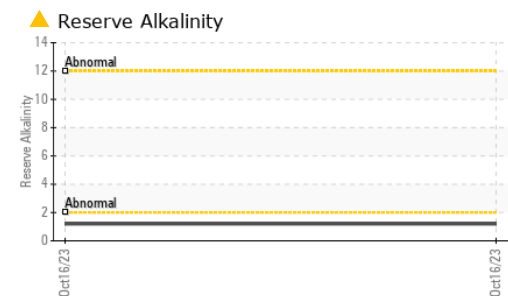
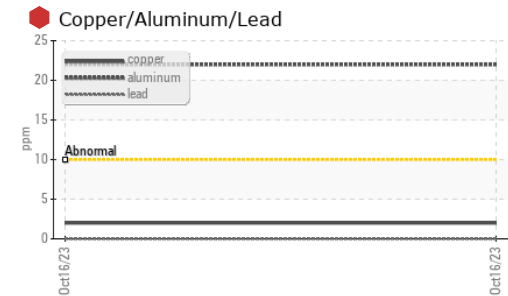
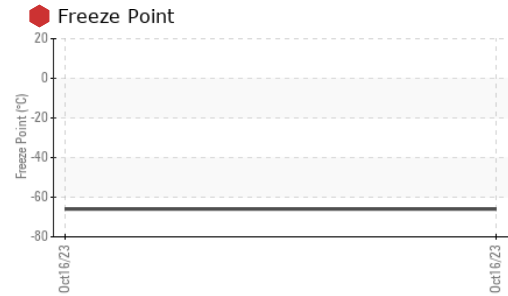
VISUAL

	method	limit/base	current	history1	history2
Coolant Color	Visual*	Orange/R	Pink	---	---
Coolant Appearance	Visual*	Clear	Clear	---	---

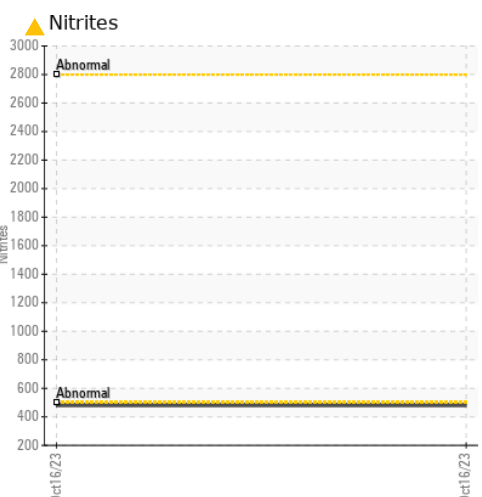
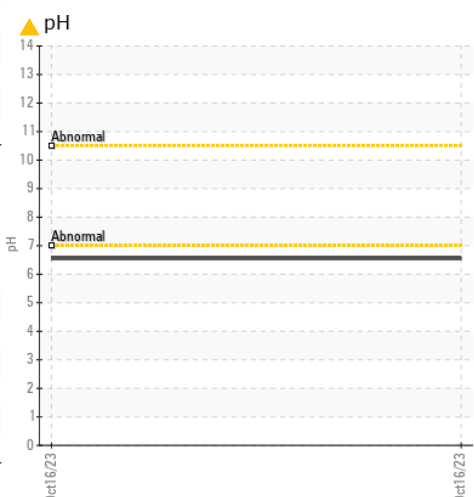
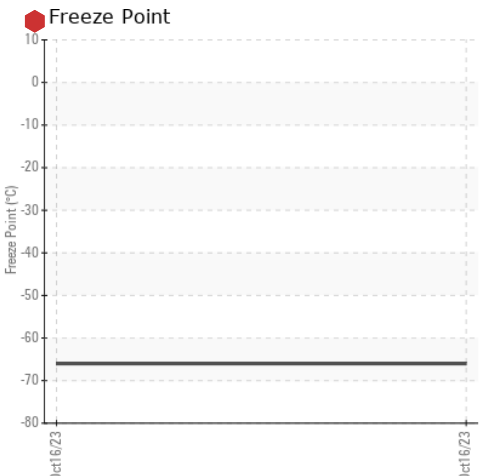
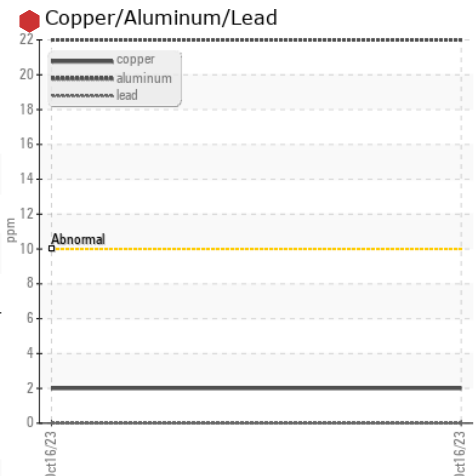
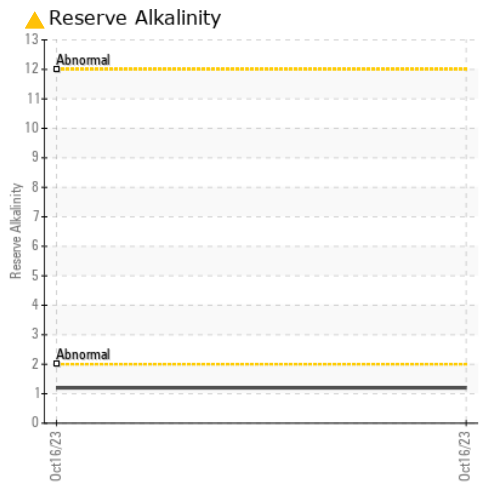
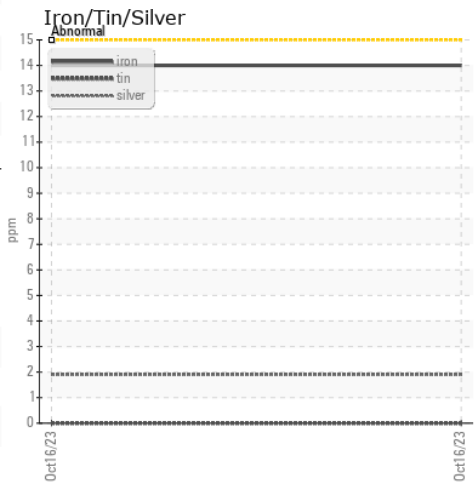
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COOLANT REPORT



GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0857578 **Received** : 27 Oct 2023
Lab Number : 02592493 **Diagnosed** : 30 Oct 2023
Unique Number : 5669572 **Diagnostician** : Kevin Marson
Test Package : COOL

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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.