



COOLANT REPORT

Sample Rating Trend

OFF SPEC



Machine Id
CATERPILLAR R1600H SCP201
 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. Recommend that you ensure the same technology coolant is being used for make-up. 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 component(unconfirmed).

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 glycol level is low which leads to an increased rate of liner pitting and may be inadequate for freeze protection. The specific gravity is lower than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0890052	---	---
Sample Date	Client Info		24 Dec 2023	---	---
Machine Age	hrs	Client Info	11727	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		Not Chngd	---	---
Sample Status			SEVERE	---	---

PHYSICAL TEST RESULTS

	method	limit/base	current	history1	history2
Specific Gravity	ASTM D1298*		▲ 1.046	---	---
pH	Scale 0-14	ASTM D1287* 9.0	7.64	---	---
Nitrites	ppm	Alcan Test Kit*	720	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	1.5	---	---
Percentage Glycol	%	ASTM D3321* 50	● 33.9	---	---
Freezing Point	°C	ASTM D3321* -40	● 0	---	---
Carboxylate			---	---	---

CORROSION INHIBITORS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	42	---	---
Phosphorus	ppm	ASTM D5185(m)	14	---	---
Boron	ppm	ASTM D5185(m)	152	---	---
Molybdenum	ppm	ASTM D5185(m)	91	---	---

CORROSION

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m) >15	1	---	---
Aluminum	ppm	ASTM D5185(m) >10	0	---	---
Copper	ppm	ASTM D5185(m) >10	3	---	---
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)	2	---	---

CARRIER SALTS



	method	limit/base	current	history1	history2
Sodium	ppm	ASTM D5185(m)	3757	---	---
Potassium	ppm	ASTM D5185(m)	1447	---	---

SCALE POTENTIAL

	method	limit/base	current	history1	history2
Calcium	ppm	ASTM D5185(m) >100	11	---	---
Magnesium	ppm	ASTM D5185(m) >40	4	---	---
Hardness	mg/L CaCO3	In-house* <75	43	---	---

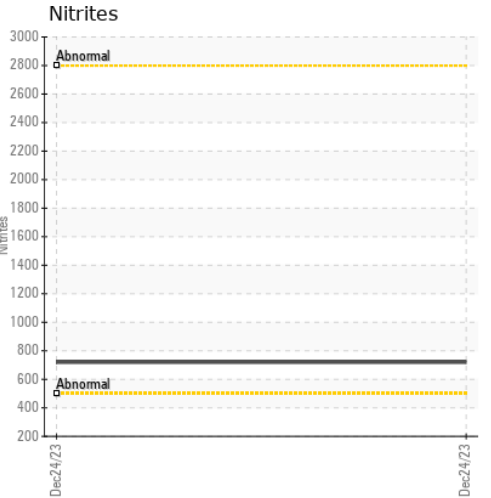
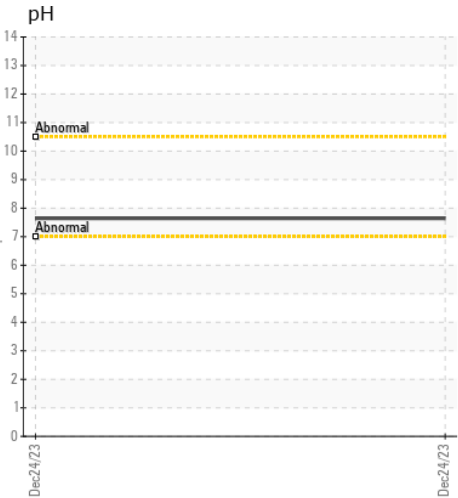
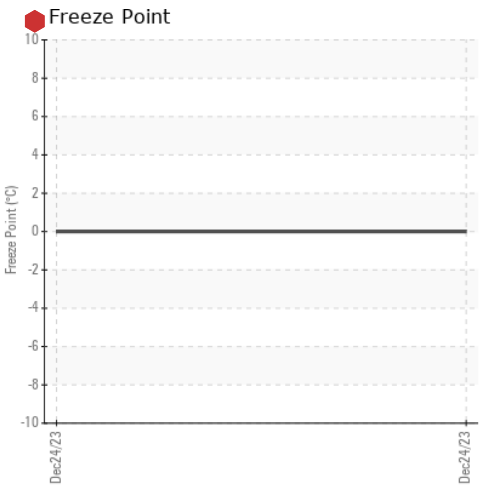
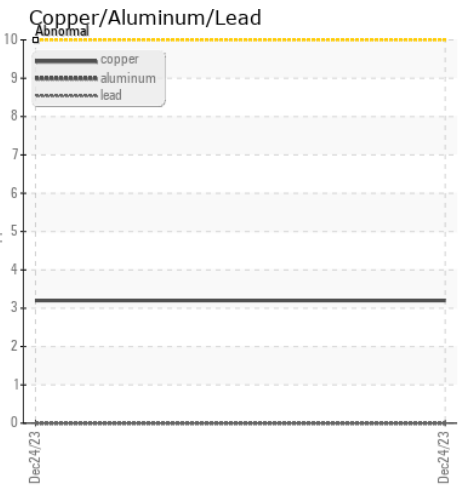
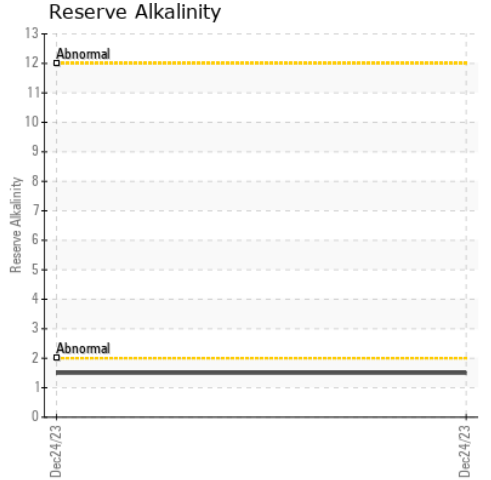
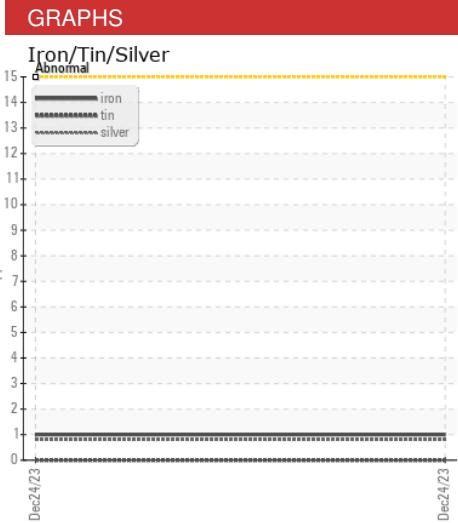
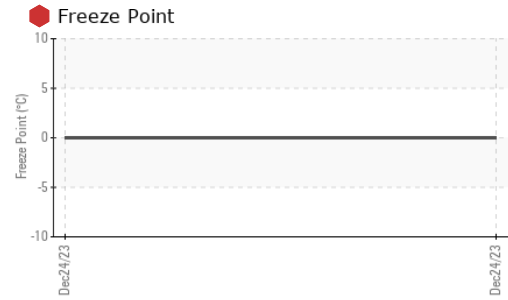
VISUAL

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

Color			no image	no image
Bottom			no image	no image



COOLANT REPORT



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0890052
Lab Number : 02608327
Unique Number : 5709413
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.