



COOLANT REPORT

CORROSION	ABNORMAL
CONTAMINANTS	ABNORMAL
COOLANT CONDITION	SEVERE

Machine Id
KOHLER Allegro 350

Component
Coolant

Fluid
CONVENTIONAL COOLANT (--- GAL)

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. Recommend that you ensure the same technology coolant is being used for make-up. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0870000	---	---
Sample Date		Client Info		28 Sep 2023	---	---
Machine Age	hrs	Client Info		0	---	---
Oil Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---

CORROSION

The iron level is high indicating rust in the system which clogs the cooling system.

Iron	ppm	ASTM D5185(m)	>15	▲ 43	---	---
Aluminum	ppm	ASTM D5185(m)	>10	<1	---	---
Copper	ppm	ASTM D5185(m)	>10	0	---	---
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)	>10	<1	---	---

CONTAMINANTS

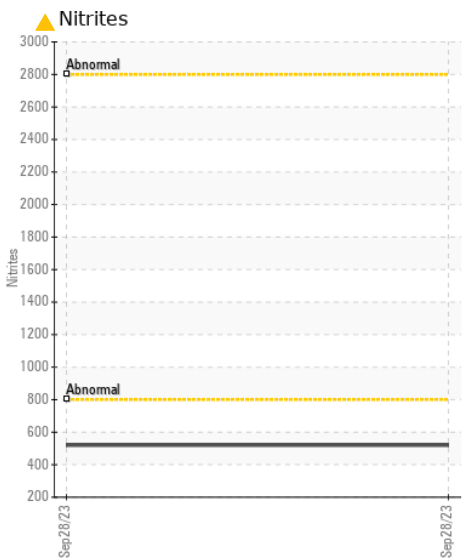
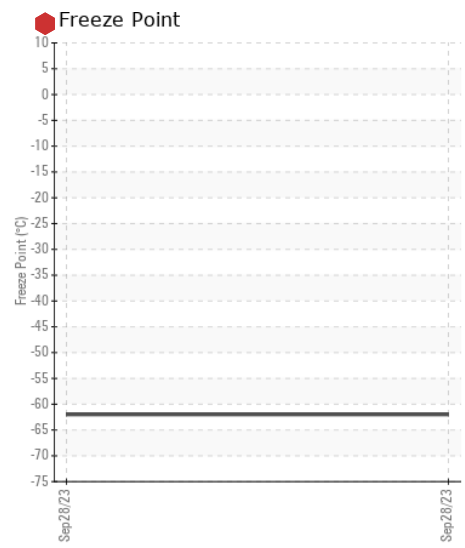
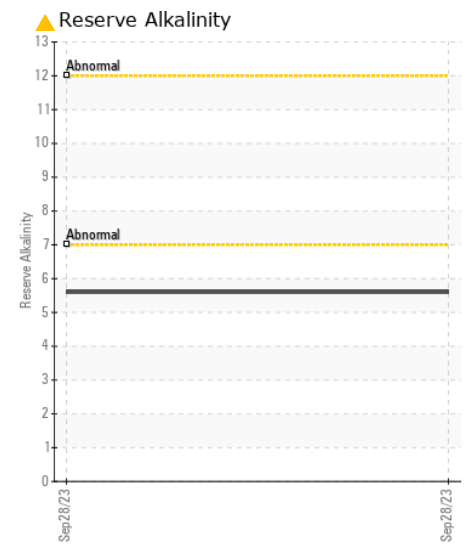
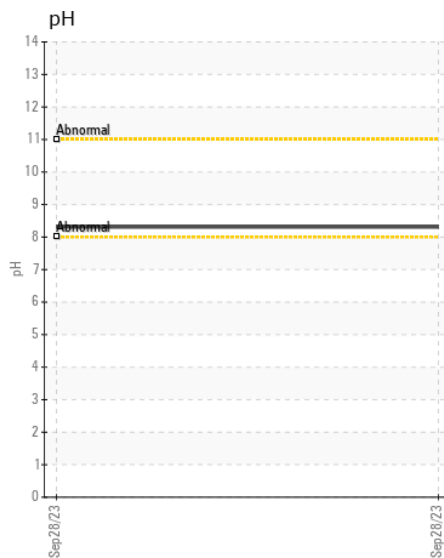
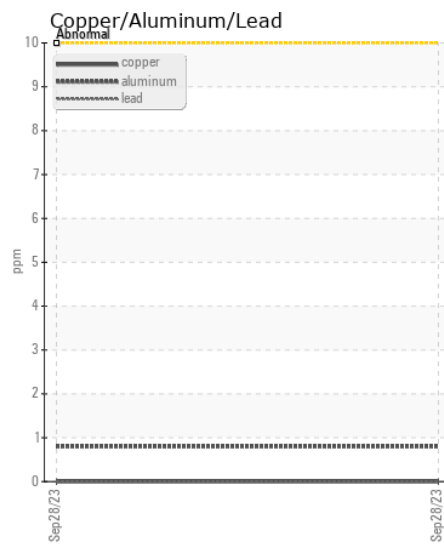
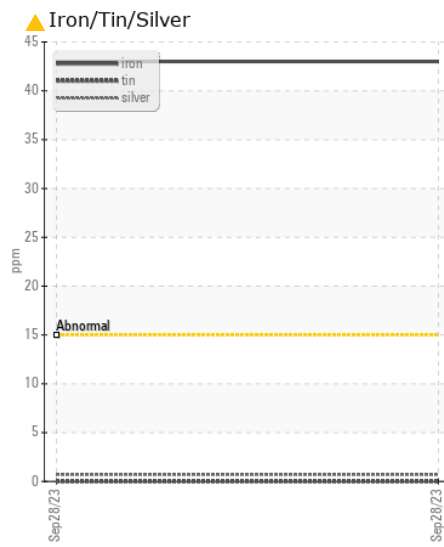
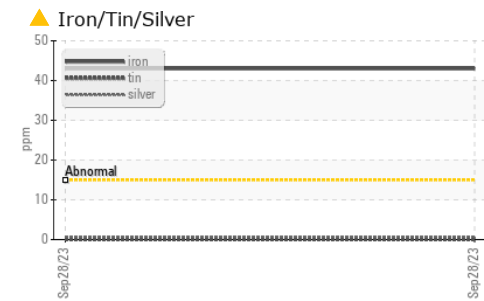
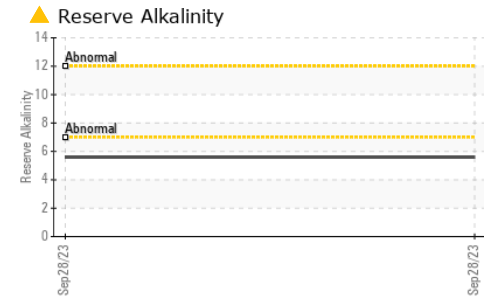
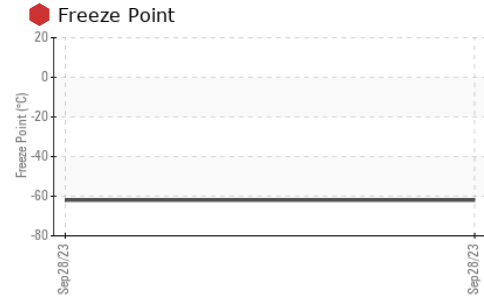
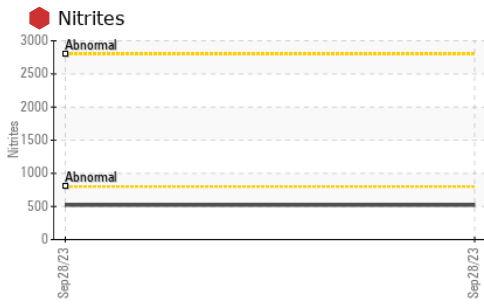
There is no indication of any contamination in the coolant.

Calcium	ppm	ASTM D5185(m)	>100	6	---	---
Magnesium	ppm	ASTM D5185(m)	>40	<1	---	---
Appearance	scalar	Visual*	NORML	NORML	---	---
Odor	scalar	Visual*	NORML	NORML	---	---
Coolant Appearance		Visual*	Clear	▲ Opaque	---	---

COOLANT CONDITION

The reserve alkalinity of this fluid is lower than acceptable. The coolant is cloudy indicating either an overconcentration of coolant additives, or a mixing of incompatible coolant technologies. 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 specific gravity is higher than typical indicating the addition of a different type of coolant. The pH level of this fluid is within the acceptable limits.

Specific Gravity		ASTM D1298*		▲ 1.095	---	---
pH	Scale 0-14	ASTM D1287*	9.5	8.31	---	---
Nitrites	ppm	Alcan Test Kit*	1500	▲ 520	---	---
Reserve Alkalinity	Scale 0-20	ASTM D1121*	8.5	▲ 5.6	---	---
Percentage Glycol	%	ASTM D3321*	50	● 75.7	---	---
Freezing Point	°C	ASTM D3321*	-40	● -62	---	---
Carboxylate				---	---	---
Silicon	ppm	ASTM D5185(m)		10	---	---
Phosphorus	ppm	ASTM D5185(m)		4	---	---
Boron	ppm	ASTM D5185(m)		519	---	---
Molybdenum	ppm	ASTM D5185(m)		0	---	---
Sodium	ppm	ASTM D5185(m)		4774	---	---
Potassium	ppm	ASTM D5185(m)		1117	---	---
Coolant Color		Visual*	Green	Other	---	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0870000 **Received** : 17 Oct 2023
Lab Number : 02589803 **Tested** : 18 Oct 2023
Unique Number : 5658869 **Diagnosed** : 18 Oct 2023 - 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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