



CONSTRUCTION EQUIPMENT

VOLVO A30D 73054 - COOLANT



Sample No: VCP353434
Oil Type: EXTENDED LIFE COOLANT
Job No:



SAMPLE INFORMATION

Sample Number	VCP353434	---	---	---
Sample Date	21 Aug 2023	---	---	---
Machine Hours	13000	---	---	---
Sample Status	SEVERE	---	---	---

STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD
 MISSISSAUGA, ON
 CA L4W 4L4

Contact: Jason Roth
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 T: (905)670-5100
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COOLANT CONDITION

Boron	ppm	63	---	---	---
Phosphorus	ppm	5	---	---	---
Sodium	ppm	857	---	---	---
Potassium	ppm	300	---	---	---
Silicon	ppm	15	---	---	---
pH	Scale 0-14	8.76	---	---	---
Reserve Alkalinity	Scale 0-20	1.2	---	---	---
Molybdenum	ppm	17	---	---	---
Nitrites	ppm	320	---	---	---
Percentage Glycol	%	21.1	---	---	---
Freezing Point	°C	15	---	---	---

Diagnosis

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. We recommend an early resample to monitor this condition. All metal levels are normal indicating no corrosion in the cooling system. There is no indication of any contamination in the coolant. 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 low which leads to an increased rate of liner pitting and may be inadequate for freeze protection. The low nitrite level indicates reduced cavitation protection which leads to corrosion and ammonia formation. 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.



CONTAMINATION

Magnesium	ppm	2	---	---	---
Calcium	ppm	24	---	---	---
Coolant Appearance		Cloudy	---	---	---
Coolant Color		Red	---	---	---
Sand/Dirt	scalar	NONE	---	---	---
Debris	scalar	NONE	---	---	---
Precipitate	scalar	NONE	---	---	---
Silt	scalar	NONE	---	---	---



CORROSION

Iron	ppm	0	---	---	---
Aluminum	ppm	0	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---

Depot: SHEMIS
Unique No: 5630672
Signed: Kevin Marson
Report Date: 23 Aug 2023



CONSTRUCTION EQUIPMENT

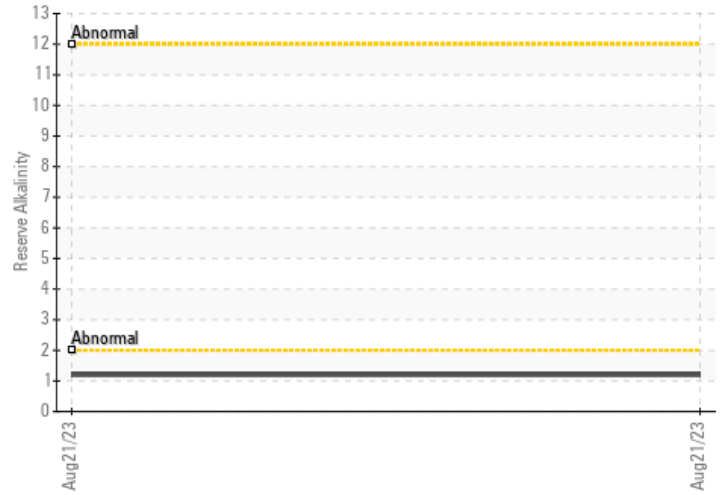


GRAPHS

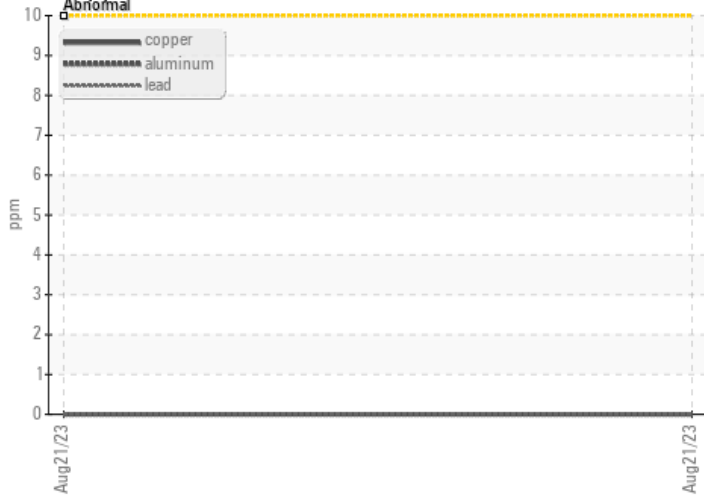
Iron/Tin/Silver



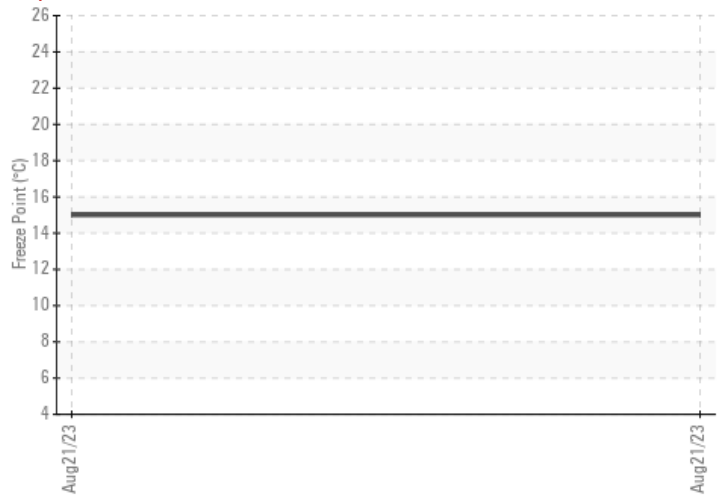
Reserve Alkalinity



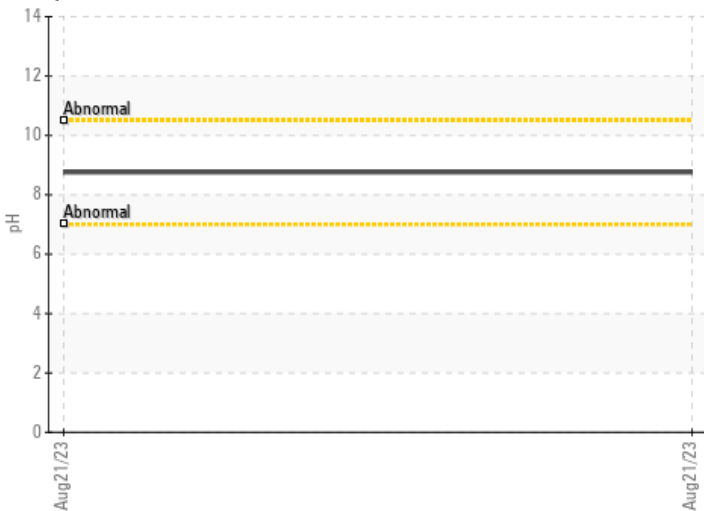
Copper/Aluminum/Lead



Freeze Point



pH



Nitrites

