CONSTRUCTION EQUIPMENT
VOLVO EC300E 312753 - COOLANT

Sample No: VCP274349
Oil Type: HYBRID (HOAT) COOLANT
Job No:

SAMPLE INFORMATION

Sample Number		**VCP274349**	---	---	---
Sample Date		**20 Jul 2021**	---	---	---
Machine Hours		**6336**	---	---	---
Sample Status		**ABNORMAL**	---	---	---

COOLANT CONDITION

Boron	ppm	**32**	---	---	---
Phosphorus	ppm	**4**	---	---	---
Sodium	ppm	**2392**	---	---	---
Potassium	ppm	**99**	---	---	---
Silicon	ppm	**10**	---	---	---
pH	Scale 0-14	**7.35**	---	---	---
Reserve Alkalinity	Scale 0-20	**3.5**	---	---	---
Molybdenum	ppm	**<1**	---	---	---
Nitrites	ppm	**440**	---	---	---
Percentage Glycol	%	**53.0**	---	---	---
Freezing Point	°C	**-42**	---	---	---

CONTAMINATION

Magnesium	ppm	**4**	---	---	---
Calcium	ppm	**49**	---	---	---
Coolant Appearance		**Clear**	---	---	---
Coolant Color		**Yellow**	---	---	---
Sand/Dirt	scalar	**NONE**	---	---	---
Debris	scalar	**NONE**	---	---	---
Precipitate	scalar	**NONE**	---	---	---
Silt	scalar	**NONE**	---	---	---

CORROSION

Iron	ppm	**<1**	---	---	---
Aluminum	ppm	**3**	---	---	---
Copper	ppm	▲ **16**	---	---	---
Lead	ppm	**<1**	---	---	---
Tin	ppm	**<1**	---	---	---

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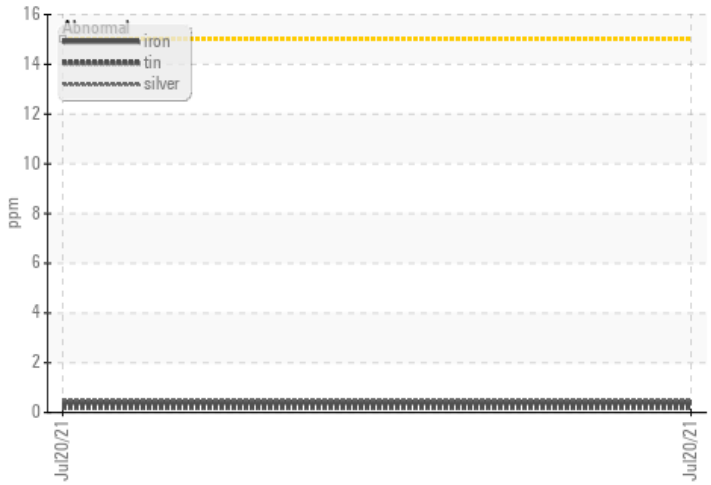
Diagnosis

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.Copper ppm levels are abnormal. The high metal levels indicate corrosion in the system. There is no indication of any contamination in the coolant. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

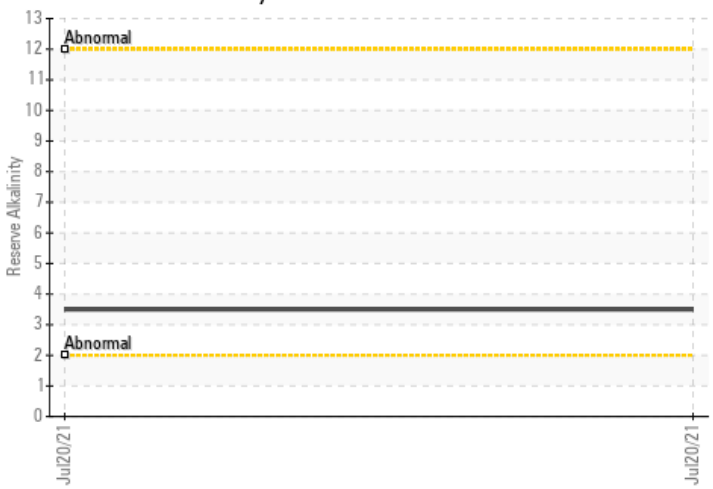
Depot: CASKIT
Unique No: 5265184
Signed: Kevin Marson
Report Date: 10 Aug 2021

GRAPHS

Iron/Tin/Silver

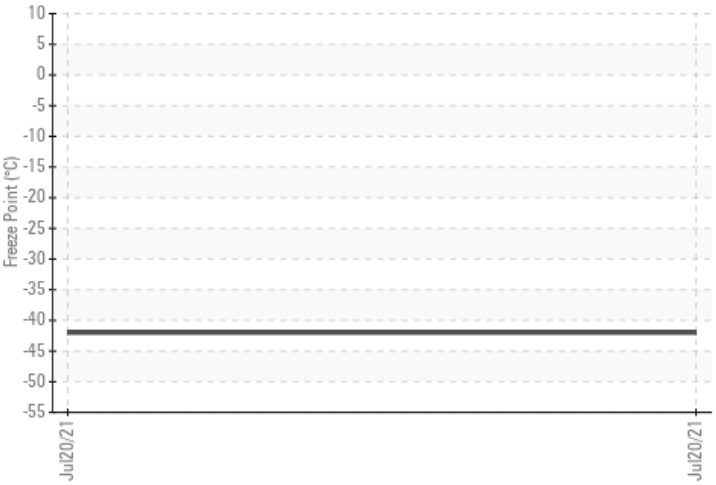


Reserve Alkalinity



Copper/Aluminum/Lead

Freeze Point



pH

Nitrites