



CONSTRUCTION EQUIPMENT

ARCHIBALD DRILLING 8000373408 VOLVO EC480EHR 391004 - COOLANT



Sample No: VCP380288
Oil Type: VOLVO COOLANT VCS (YELLOW)
Job No: 8000373408



SAMPLE INFORMATION

Sample Number	VCP380288	---	---	---
Sample Date	06 Jul 2023	---	---	---
Machine Hours	966	---	---	---
Sample Status	ABNORMAL	---	---	---



COOLANT CONDITION

Boron	ppm	■ 41	---	---	---
Phosphorus	ppm	■ 8	---	---	---
Sodium	ppm	■ 3228	---	---	---
Potassium	ppm	■ 25	---	---	---
Silicon	ppm	■ 2	---	---	---
pH	Scale 0-14	■ 8.43	---	---	---
Reserve Alkalinity	Scale 0-20	▲ 4.3	---	---	---
Molybdenum	ppm	■ 3	---	---	---
Nitrites	ppm	▲ 320	---	---	---
Percentage Glycol	%	■ 49.5	---	---	---
Freezing Point	°C	■ -33	---	---	---



CONTAMINATION

Magnesium	ppm	■ 2	---	---	---
Calcium	ppm	■ 13	---	---	---
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	■ <1	---	---	---
Copper	ppm	■ 2	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---



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Diagnosis

Drain system and refill with 50/50 premix of manufacturer recommended coolant. All metal levels are normal indicating no corrosion in the cooling system. Hardness is elevated. Elevated hardness can allow scale formation that will reduce cooling system effectiveness. There is no indication of any contamination in the coolant. The nitrites levels are too high which leads to additive drop-out and scale formation. The reserve alkalinity of this fluid is higher than acceptable indicating the coolant is over-concentrated. The pH level of this fluid is within the acceptable limits.

Depot: SHEDAR
Unique No: 5618945
Signed: Kevin Marson
Report Date: 03 Aug 2023



CONSTRUCTION EQUIPMENT

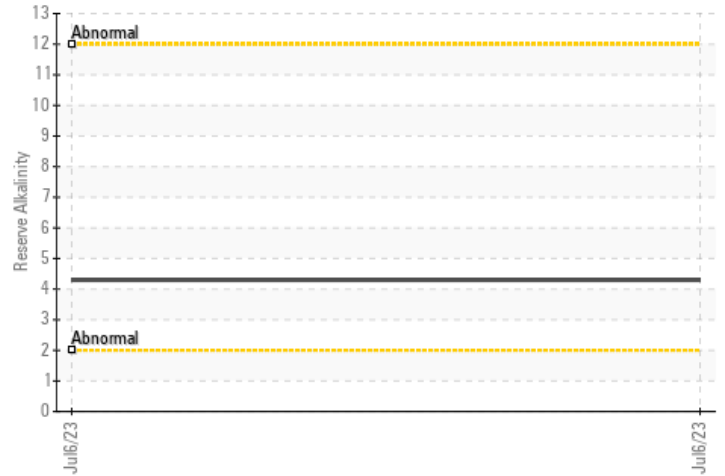


VOLVO GRAPHS

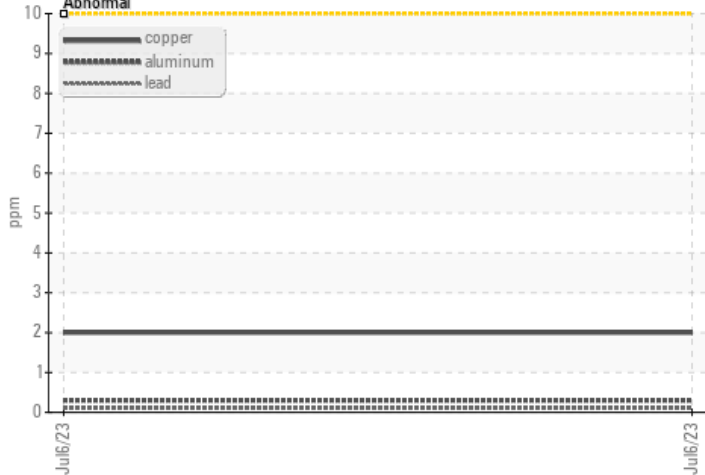
Iron/Tin/Silver



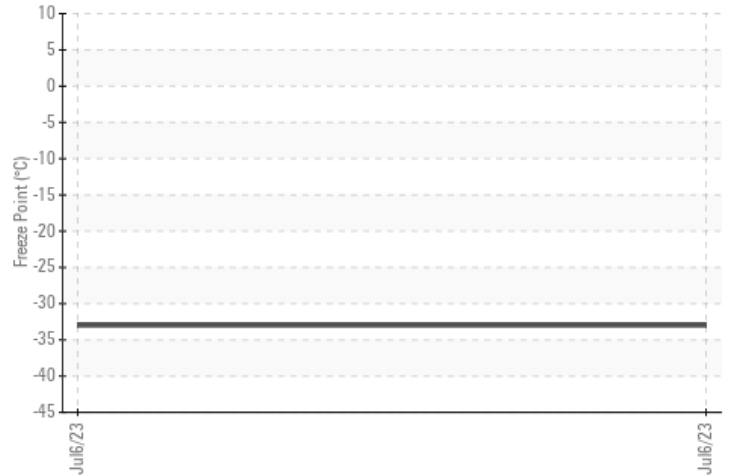
Reserve Alkalinity



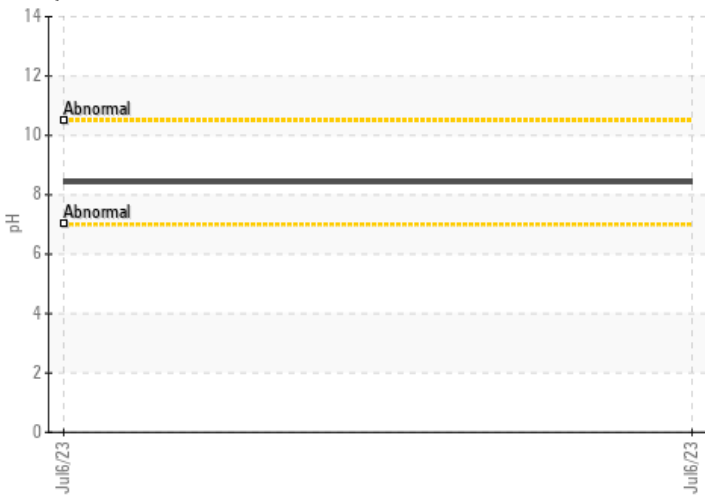
Copper/Aluminum/Lead



Freeze Point



pH



Nitrites

