

LIEBHERR

CONSTRUCTION EQUIPMENT



[HAMMERSTONE] 16012 - Coolant

Sample No: LH0265038

Oil Type: CONVENTIONAL COOLANT



SAMPLE INFORMATION

Sample Number	LH0265038	---	---	---
Sample Date	11 Jul 2023	---	---	---
Machine Hours	14669	---	---	---
Sample Status	ABNORMAL	---	---	---



COOLANT CONDITION

Boron	ppm	● 490	---	---	---
Phosphorus	ppm	● 8	---	---	---
Sodium	ppm	● 3840	---	---	---
Potassium	ppm	● 240	---	---	---
Silicon	ppm	● 55	---	---	---
pH	Scale 0-14	● 7.60	---	---	---
Reserve Alkalinity	Scale 0-20	● 3.9	---	---	---
Molybdenum	ppm	● 138	---	---	---
Nitrites	ppm	● 1240	---	---	---
Percentage Glycol	%	● 52.3	---	---	---
Freezing Point	°C	● -40	---	---	---



CONTAMINATION

Magnesium	ppm	● 1	---	---	---
Calcium	ppm	● 10	---	---	---
Coolant Appearance		● Clear	---	---	---
Coolant Color		● Grn/Yellow	---	---	---
Sand/Dirt	scalar	● NONE	---	---	---
Debris	scalar	● NONE	---	---	---
Precipitate	scalar	● NONE	---	---	---
Silt	scalar	● NONE	---	---	---



CORROSION

Iron	ppm	● 2	---	---	---
Aluminum	ppm	● 0	---	---	---
Copper	ppm	● 3	---	---	---
Lead	ppm	● 7	---	---	---
Tin	ppm	● 2	---	---	---

Liebherr-Canada Ltd.

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Diagnosis

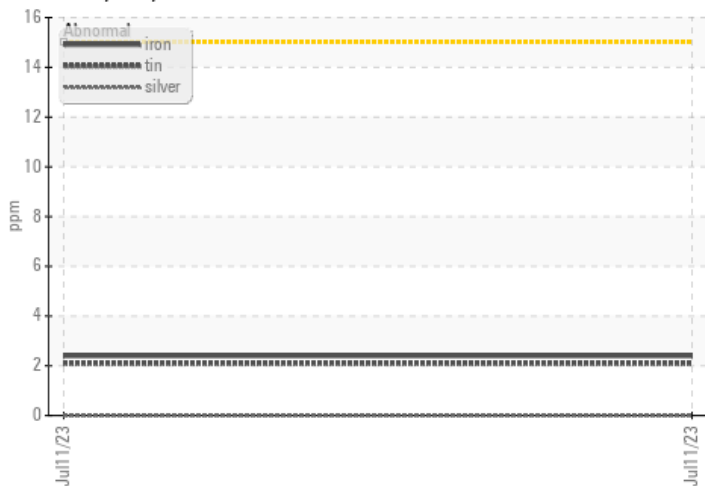
We recommend drain system, and refill with 50/50 antifreeze water mixture. We advise that you replenish the supplemental coolant additives (SCAs) and add per manufacturer's specifications. Resample at the next service interval to monitor. All metal levels are normal indicating no corrosion in the cooling system. There is no indication of any contamination in the coolant. The nitrite level is acceptable. The pH is low which causes rust formation.

Depot: LIEFTM
 Unique No: 5607548
 Signed: Kevin Marson
 Report Date: 19 Jul 2023

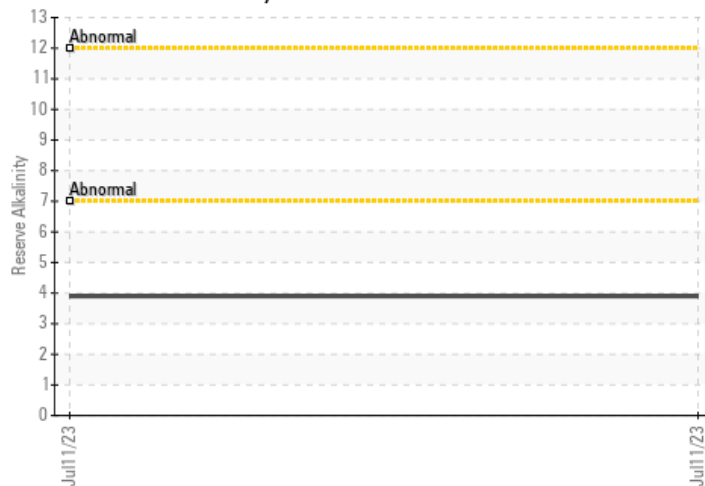


GRAPHS

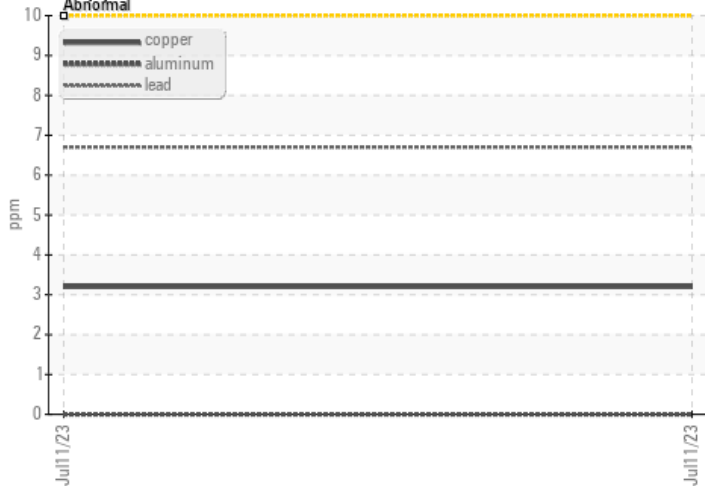
Iron/Tin/Silver



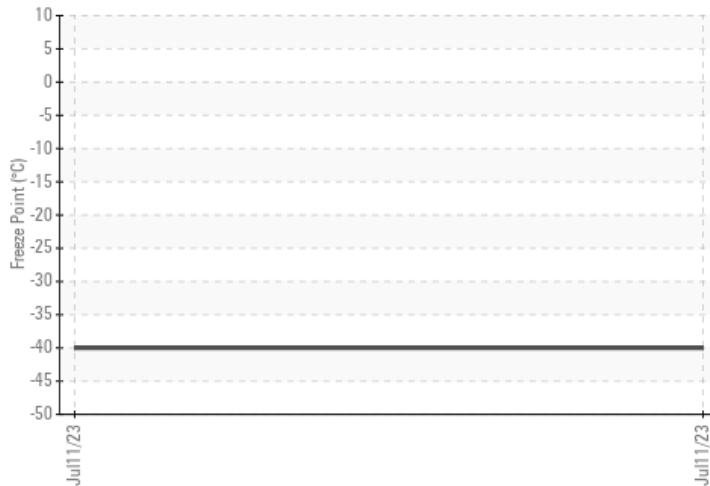
Reserve Alkalinity



Copper/Aluminum/Lead



Freeze Point



pH



Nitrites

