

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 115415 - Coolant

Sample No: LH0278783

Oil Type: HYBRID (HOAT) COOLANT



SAMPLE INFORMATION

Sample Number	LH0278783	---	---	---
Sample Date	05 Feb 2024	---	---	---
Machine Hours	3117	---	---	---
Sample Status	SEVERE	---	---	---

EARTHLINE FOUNDATIONS AND SHORING LTD
160 ADMIRAL BLVD
MISSISSAUGA, ON
CA L5T 2N6
Contact: Service Manager



COOLANT CONDITION

Boron	ppm	9	---	---	---
Phosphorus	ppm	9	---	---	---
Sodium	ppm	8458	---	---	---
Potassium	ppm	686	---	---	---
Silicon	ppm	10	---	---	---
pH	Scale 0-14	6.95	---	---	---
Reserve Alkalinity	Scale 0-20	4.4	---	---	---
Molybdenum	ppm	8	---	---	---
Nitrites	ppm	400	---	---	---
Percentage Glycol	%	51.2	---	---	---
Freezing Point	°C	-39	---	---	---

T:
F:

Diagnosis

Clean cooling system with an acid-based cleaner according to directions, and flush with water afterwards thoroughly. Refill with 50/50 premix of manufacturer recommended coolant. Resample in 30 days. All metal levels are normal indicating no corrosion in the cooling system. Hardness is critically elevated. Elevated hardness can allow scale formation that will reduce cooling system effectiveness. The reserve alkalinity of this fluid is acceptable.



CONTAMINATION

Magnesium	ppm	7	---	---	---
Calcium	ppm	32	---	---	---
Coolant Appearance		Clear	---	---	---
Coolant Color		Pink	---	---	---
Sand/Dirt	scalar	NONE	---	---	---
Debris	scalar	NONE	---	---	---
Precipitate	scalar	NONE	---	---	---
Silt	scalar	NONE	---	---	---



CORROSION

Iron	ppm	0	---	---	---
Aluminum	ppm	4	---	---	---
Copper	ppm	0	---	---	---
Lead	ppm	0	---	---	---
Tin	ppm	0	---	---	---

Depot: EARMIS
Unique No: 5723264
Signed: Kevin Marson
Report Date: 08 Feb 2024

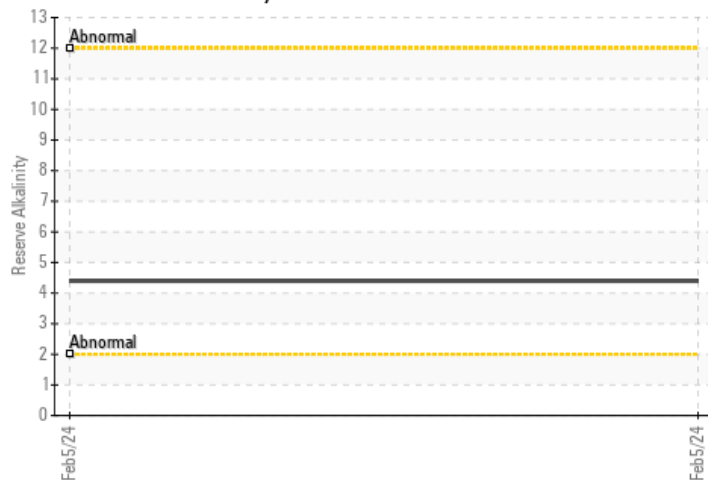


GRAPHS

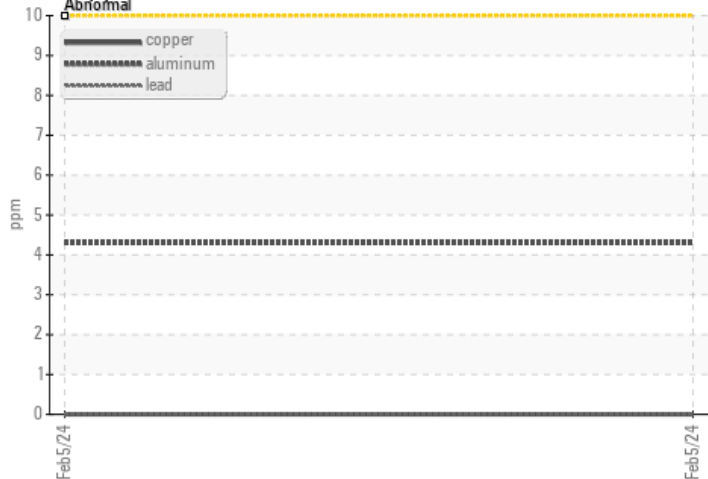
Iron/Tin/Silver



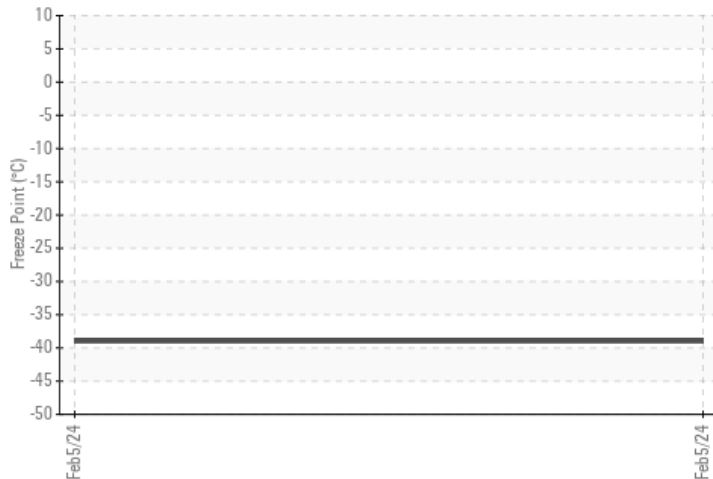
Reserve Alkalinity



Copper/Aluminum/Lead



Freeze Point



pH



Nitrites

