LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR HS895 188297 - Coolant

Sample No: LH0295143

Oil Type: EXTENDED LIFE COOLANT

Harbour Develpment
380 Bayside Dr
St John, NB
CA E2J 4Y8
Contact: Darien Edison
edison.darien@harbourdev.com
T:
F:

Sample Information

Sample Number		LH0295143	---	---	---
Sample Date		18 Jun 2024	---	---	---
Machine Hours		16385	---	---	---
Sample Status		SEVERE	---	---	---

Coolant Condition

Boron	ppm	132	---	---	---
Phosphorus	ppm	17	---	---	---
Sodium	ppm	6594	---	---	---
Potassium	ppm	436	---	---	---
Silicon	ppm	27	---	---	---
pH	Scale 0-14	7.13	---	---	---
Reserve Alkalinity	Scale 0-20	5.8	---	---	---
Molybdenum	ppm	16	---	---	---
Nitrites	ppm	560	---	---	---
Percentage Glycol	%	60.8	---	---	---
Freezing Point	°C	-49	---	---	---

Contamination

Magnesium	ppm	9	---	---	---
Calcium	ppm	32	---	---	---
Coolant Appearance		Clear	---	---	---
Coolant Color		Pink	---	---	---
Sand/Dirt	scalar	VLITE	---	---	---
Debris	scalar	NONE	---	---	---
Precipitate	scalar	NONE	---	---	---
Silt	scalar	NONE	---	---	---

Corrosion

Iron	ppm	0	---	---	---
Aluminum	ppm	<1	---	---	---
Copper	ppm	7	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	0	---	---	---

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 nitrite level is acceptable. The pH level of this fluid is within the acceptable limits. The reserve alkalinity of this fluid is acceptable.

Depot: HAR380STJ
Unique No: 5801784
Signed: Kevin Marson
Report Date: 27 Jun 2024

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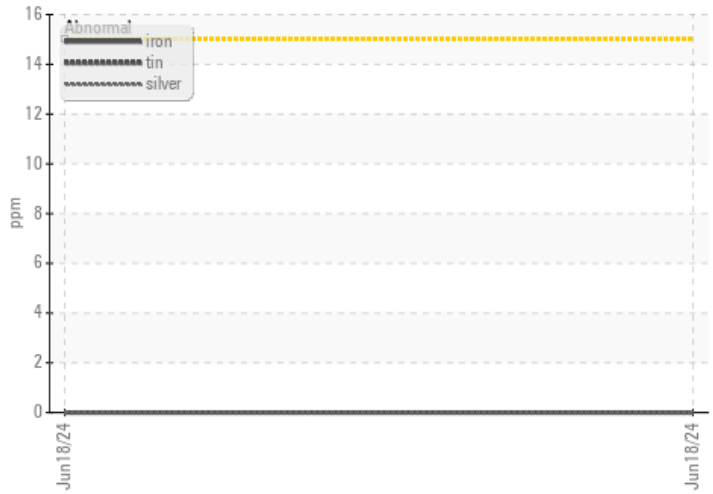
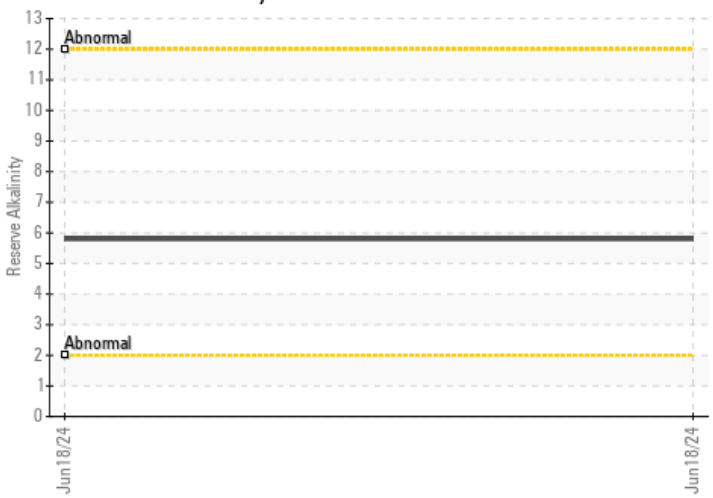
Graphs

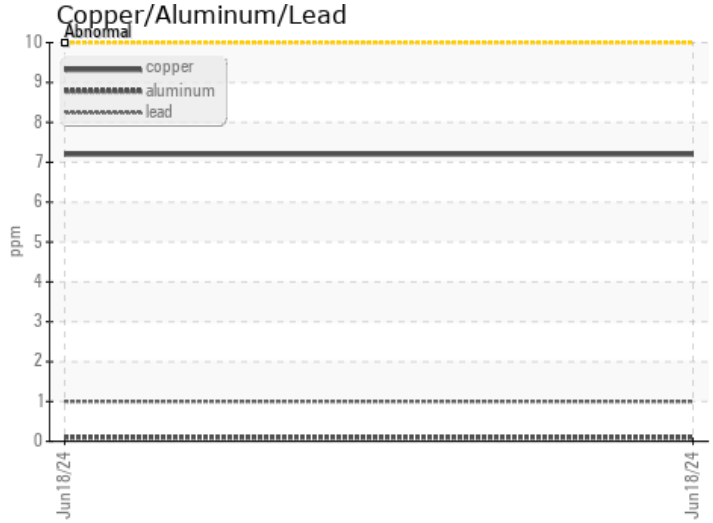
Iron/Tin/Silver



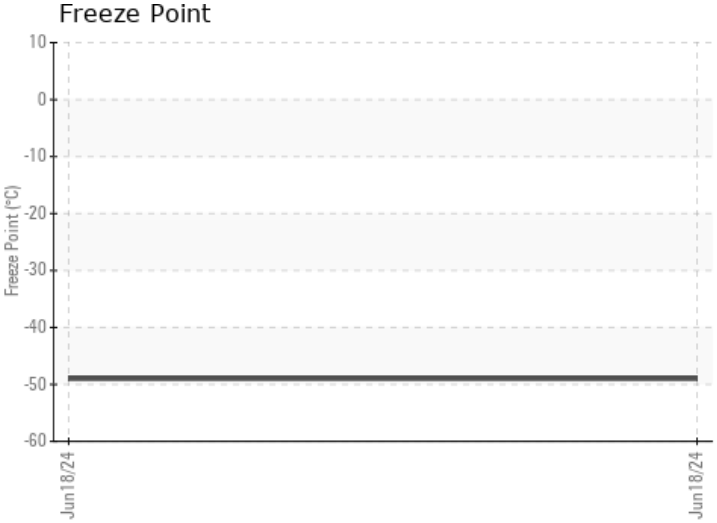
Reserve Alkalinity



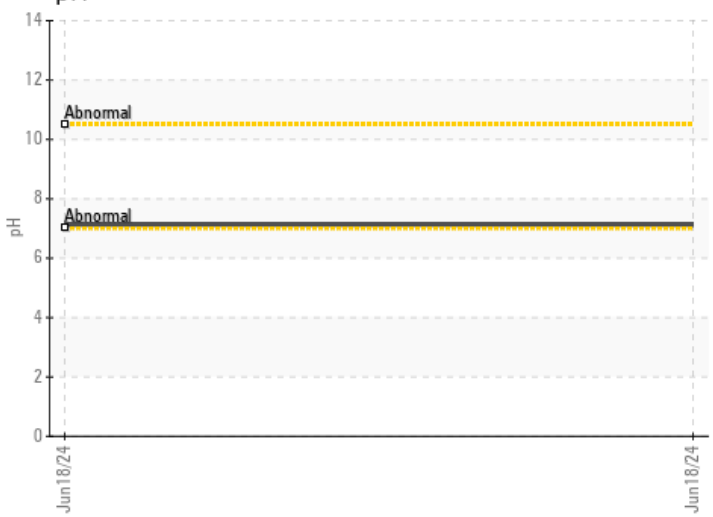
Copper/Aluminum/Lead



Freeze Point



pH



Nitrites