

LIEBHERR

CONSTRUCTION EQUIPMENT



[[S20230804040102]] LIEBHERR TA230 4161 - Coolant

Sample No: LH06059738

Oil Type: {unknown}



SAMPLE INFORMATION

Sample Number	LH06059738	---	---	---
Sample Date	29 Dec 2023	---	---	---
Machine Hours	0	---	---	---
Sample Status	NORMAL	---	---	---



COOLANT CONDITION

Boron	ppm	0	---	---	---
Phosphorus	ppm	17	---	---	---
Sodium	ppm	5651	---	---	---
Potassium	ppm	991	---	---	---
Silicon	ppm	128	---	---	---
pH	Scale 0-14	8.21	---	---	---
Reserve Alkalinity	Scale 0-20	---	---	---	---
Molybdenum	ppm	8	---	---	---
Nitrites	ppm	788	---	---	---
Percentage Glycol	%	53.8	---	---	---
Freezing Point	°C	-43	---	---	---



CONTAMINATION

Magnesium	ppm	28	---	---	---
Calcium	ppm	44	---	---	---
Coolant Appearance		normal	---	---	---
Coolant Color		Pink	---	---	---



CORROSION

Iron	ppm	3	---	---	---
Aluminum	ppm	2	---	---	---
Copper	ppm	24	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	2	---	---	---

HEAVY MACHINES INC.

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Diagnosis

No corrective action is recommended at this time. The fluid is suitable for further service. All metal levels are normal indicating no corrosion in the cooling system. There is no indication of any contamination in the coolant. Carboxylate test failed. Glycol and nitrite levels are acceptable. The pH level of this fluid is within the acceptable limits.

Depot: LEC0051

Unique No: 10831120

Signed: Doug Bogart

Report Date: 17 Jan 2024

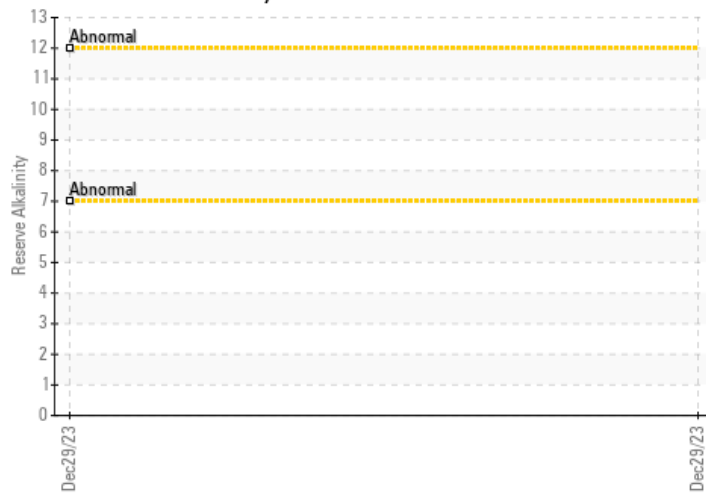


GRAPHS

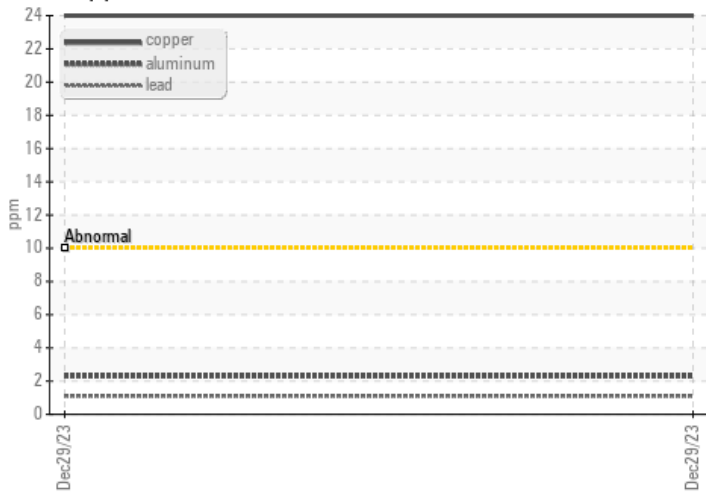
Iron/Tin/Silver



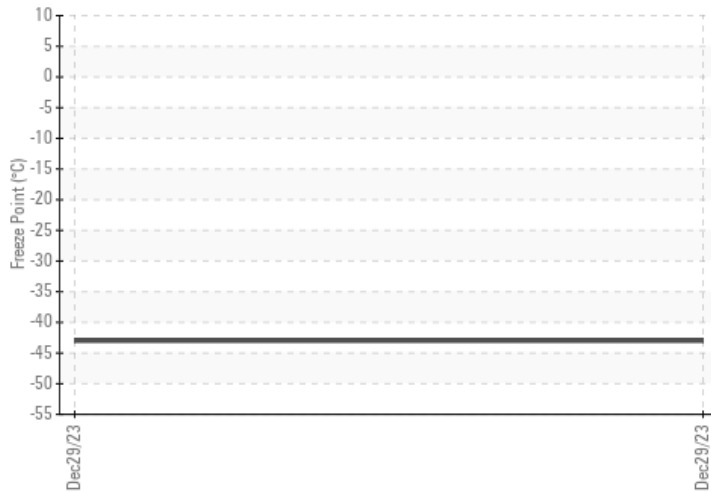
Reserve Alkalinity



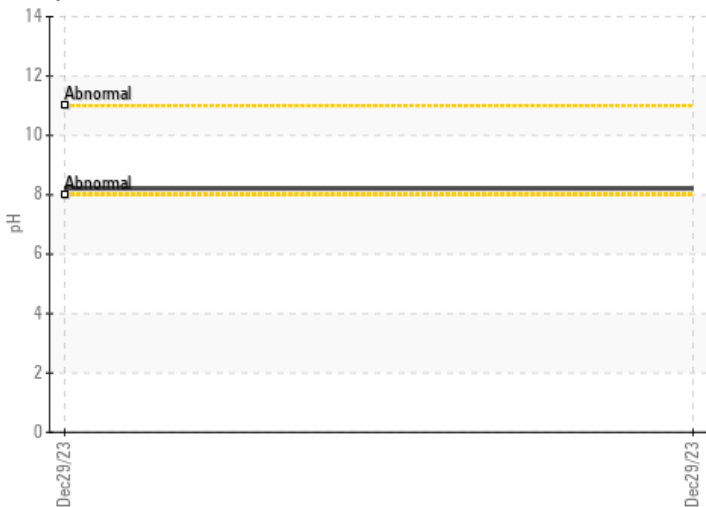
Copper/Aluminum/Lead



Freeze Point



pH



Nitrites

