

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR 708999 (S/N 112358-1216) - Front Differential

Sample No: LH0257857

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0257857	LH0245155	---	---
Sample Date	13 Nov 2023	20 Dec 2022	---	---
Machine Hours	0	2000	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	160	185	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	8	3	---	---
Sodium	ppm	1	3	---	---
Potassium	ppm	2	0	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	26	10	---	---
Copper	ppm	50	9	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	1	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	2	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

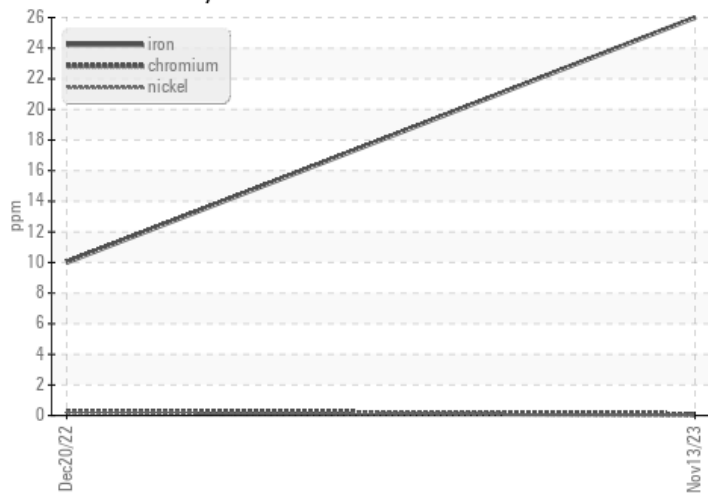
Calcium	ppm	169	13	---	---
Magnesium	ppm	2	1	---	---
Zinc	ppm	39	8	---	---
Phosphorus	ppm	2089	1117	---	---
Barium	ppm	0	351	---	---
Boron	ppm	29	2	---	---

Depot: LEC0008
 Unique No: 10751982
 Signed: Sean Felton
 Report Date: 22 Nov 2023

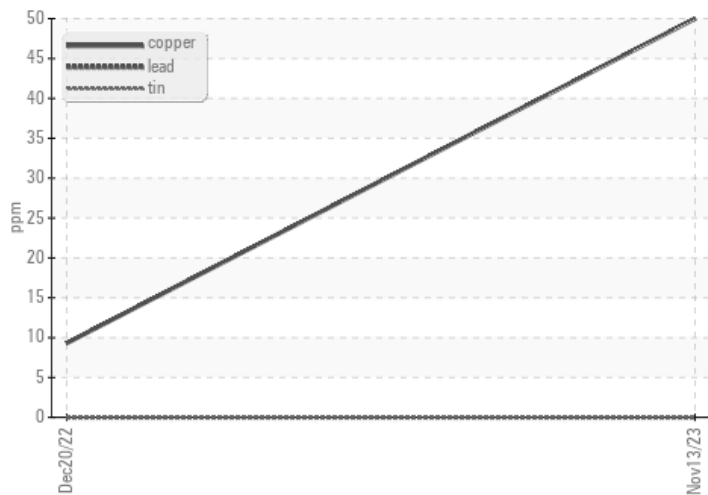


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

