

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-98638 - Rear Differential

Sample No: LH0268268

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0268268	LH0263937	LH0245047	LH0221000
Sample Date	25 Jan 2024	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	13406	12191	11277	10101
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	121	124	136	191
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 2	● 2	● 2	● 2
Sodium	ppm	● 0	● 0	● <1	● 2
Potassium	ppm	● 0	● <1	● 0	● 2

Diagnosis

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



WEAR METALS

Iron	ppm	● 22	● 25	● 24	● 32
Copper	ppm	● 2	● 4	● 4	● 9
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 0	● 0	● 1	● <1
Chromium	ppm	● 0	● 0	● 0	● 0
Molybdenum	ppm	● 0	● <1	● 0	● 0
Nickel	ppm	● 0	● 0	● 0	● 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

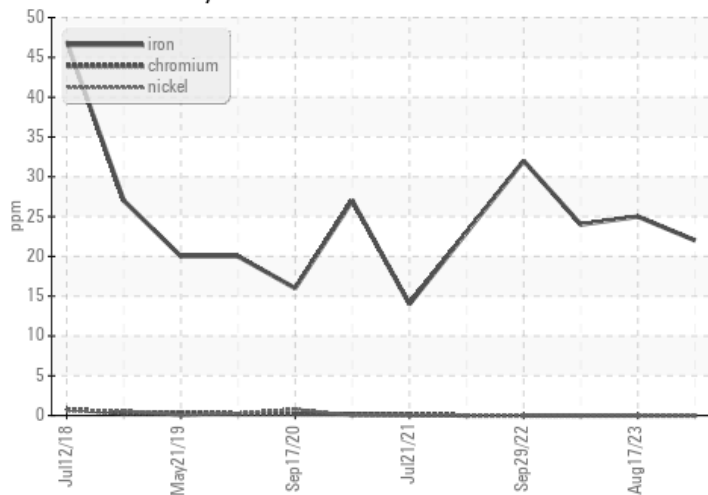
Calcium	ppm	● 22	● 30	● 30	● 12
Magnesium	ppm	● 0	● 8	● 3	● 1
Zinc	ppm	● 10	● 21	● 13	● 13
Phosphorus	ppm	● 811	● 746	● 919	● 2133
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 1	● 2	● 3	● 1

Depot: LEC0007
 Unique No: 10857280
 Signed: Sean Felton
 Report Date: 01 Feb 2024

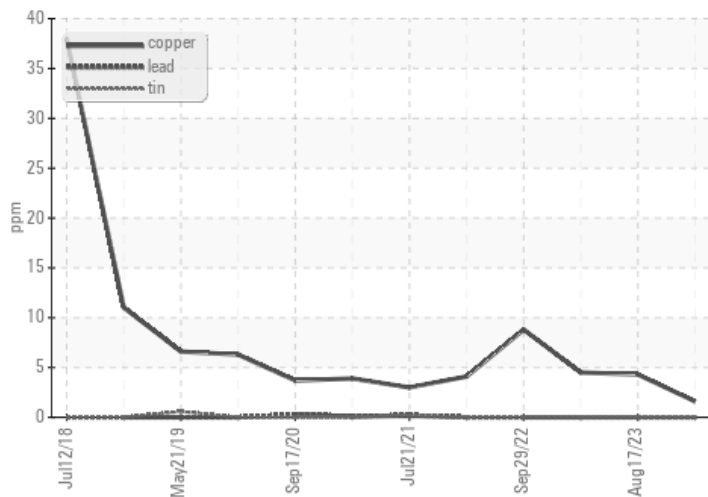


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

