

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-108671- Rear Left Wheel Hub

Sample No: LH0268417

Oil Type: GEAR OIL LS 80W90



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Sample Information

Sample Number	LH0268417	LH0268412	LH0258761	LH0263990
Sample Date	14 Jun 2024	14 Jun 2024	23 Feb 2024	14 Dec 2023
Machine Hours	21235	21235	20036	19125
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	123	122	118	121
		●	●	●	●



Contamination

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



Wear Metals

Iron	ppm	● 10	● 9	● 5	● 5
Copper	ppm	● 2	● 5	● 2	● <1
Lead	ppm	● 0	● 0	● 0	● 0
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● <1	● <1	● <1	● 0
Chromium	ppm	● 0	● 0	● 0	● 0
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● <1	● <1	● 0
Titanium	ppm	● 0	● 0	● 0	● <1
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● <1	● <1	● <1	● <1
Vanadium	ppm	● 0	● 0	● 0	● 0



Additives

Calcium	ppm	● 41	● 23	● 40	● 46
Magnesium	ppm	● 5	● 3	● 6	● 5
Zinc	ppm	● 20	● 21	● 19	● 21
Phosphorus	ppm	● 994	● 1009	● 843	● 855
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 13	● 15	● 0	● 1

Diagnosis

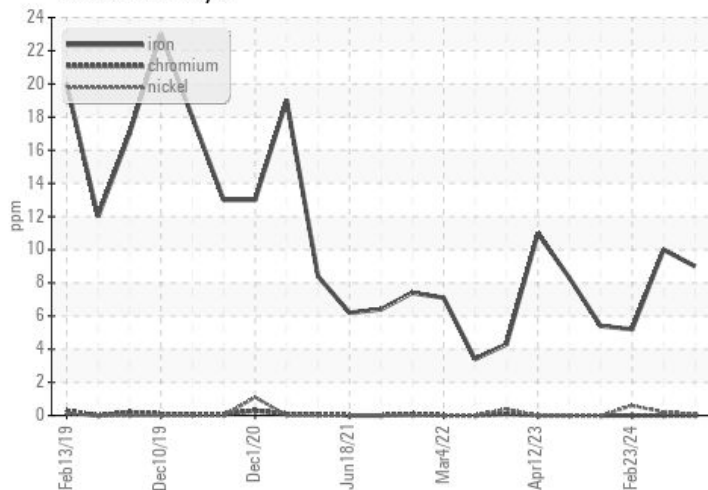
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 11097175
 Signed: Wes Davis
 Report Date: 25 Jun 2024

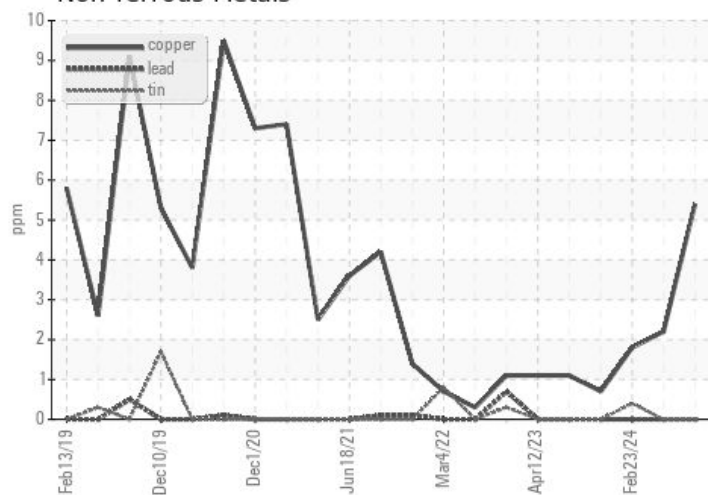


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

