

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50M 1216-117 615 - Rear Differential

Sample No: LH0268504

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

Sample Number	LH0268504	LH0243176	LHMC165172	LHMC155589
Sample Date	18 Dec 2023	14 Apr 2023	21 Jun 2021	13 Apr 2021
Machine Hours	8068	6895	3193	2765
Oil Hours	1173	1000	0	740
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	● 188	● 174	● 211	● 186
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● <1	● <1	● 5	● 3
Sodium	ppm	● 2	● <1	● 4	● 4
Potassium	ppm	● 2	● <1	● 1	● 6



WEAR METALS

Iron	ppm	● 12	● 13	● 66	● 57
Copper	ppm	● 6	● 5	● 28	● 17
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● 0	● 0	● <1	● 0
Aluminum	ppm	● <1	● 0	● 1	● <1
Chromium	ppm	● 0	● 0	● <1	● <1
Molybdenum	ppm	● 0	● 0	● <1	● <1
Nickel	ppm	● 0	● <1	● <1	● 0
Titanium	ppm	● 0	● 0	● 0	● 0
Silver	ppm	● 0	● 0	● 0	● 0
Manganese	ppm	● <1	● <1	● 2	● 1
Vanadium	ppm	● 0	● 0	● 0	● 0



ADDITIVES

Calcium	ppm	● 15	● 28	● 53	● 51
Magnesium	ppm	● <1	● <1	● 2	● 1
Zinc	ppm	● 12	● 29	● 29	● 26
Phosphorus	ppm	● 2282	● 2207	● 2365	● 2513
Barium	ppm	● 0	● 0	● 0	● <1
Boron	ppm	● 0	● 0	● 23	● 3

Diagnosis

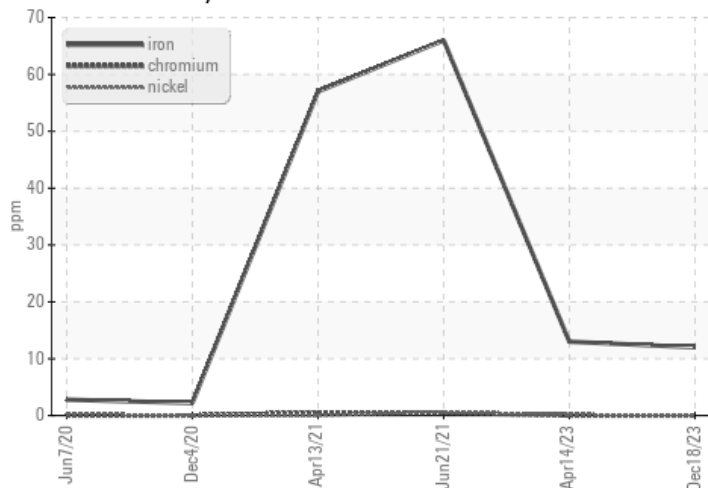
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 10849968
Signed: Wes Davis
Report Date: 30 Jan 2024

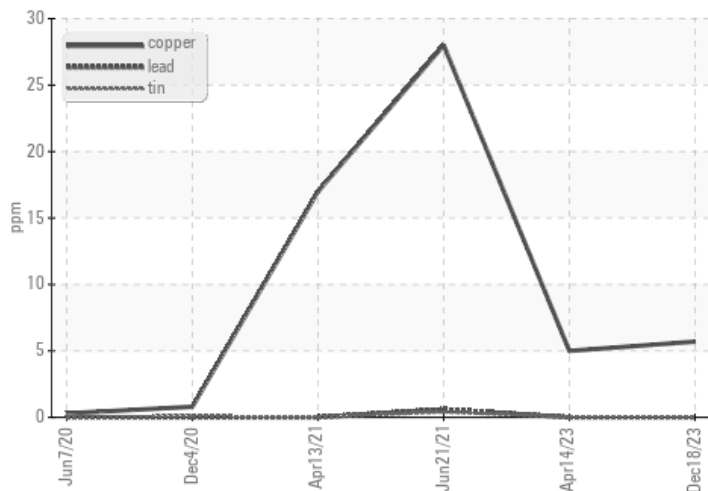


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

