

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0268644

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

Sample Number	LH0268644	LH0268504	LH0243176	LHMC165172
Sample Date	20 Mar 2024	18 Dec 2023	14 Apr 2023	21 Jun 2021
Machine Hours	5510	8068	6895	3193
Oil Hours	510	1173	1000	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	● 176	● 188	● 174	● 211
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 0	● <1	● <1	● 5
Sodium	ppm	● 1	● 2	● <1	● 4
Potassium	ppm	● 0	● 2	● <1	● 1



WEAR METALS

Iron	ppm	● 3	● 12	● 13	● 66
Copper	ppm	● 1	● 6	● 5	● 28
Lead	ppm	● 0	● 0	● 0	● <1
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● 0	● <1	● 0	● 1
Chromium	ppm	● 0	● 0	● 0	● <1
Molybdenum	ppm	● 0	● 0	● 0	● <1
Nickel	ppm	● 0	● 0	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	● 0	● <1	● <1	● 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	● 15	● 15	● 28	● 53
Magnesium	ppm	● 1	● <1	● <1	● 2
Zinc	ppm	18	● 12	● 29	● 29
Phosphorus	ppm	● 2205	● 2282	● 2207	● 2365
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● 0	● 0	● 0	● 23

Diagnosis

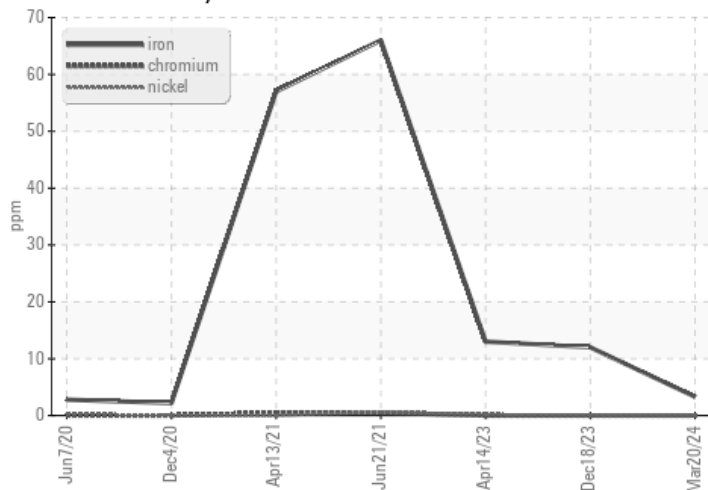
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRLH
 Unique No: 10939379
 Signed: Wes Davis
 Report Date: 24 Mar 2024

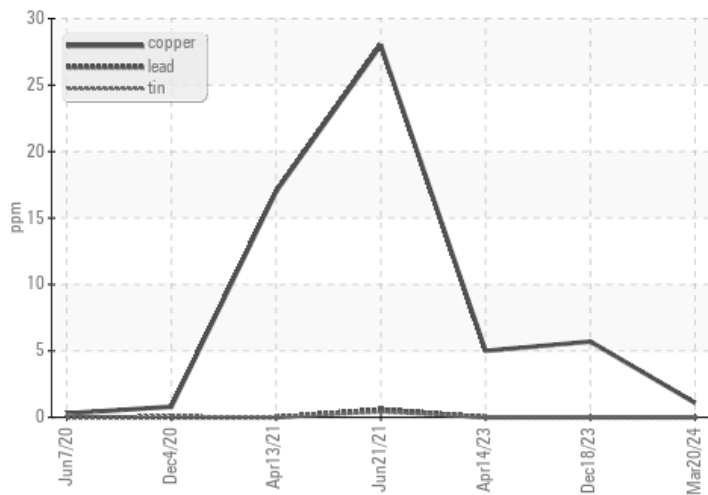


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

