

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50M 107 256-1216 - Rear Left Wheel Hub

Sample No: LH06163749

Oil Type: GEAR OIL SAE 80W90



**DIEHL AND NUEMAIER**  
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#### Sample Information

Sample Number	LH06163749	LH05510125	LH05170951	LHMC141305
Sample Date	29 Apr 2024	03 Apr 2022	30 Jan 2021	05 Jan 2020
Machine Hours	3993	2974	1987	1017
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



#### Oil Condition

Visc @ 40°C	cSt	180	192	193	179
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#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	2	5	17
Sodium	ppm	5	4	3	12
Potassium	ppm	0	<1	0	2



#### Wear Metals

Iron	ppm	21	18	27	50
Copper	ppm	8	5	10	7
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	<1	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	4	4	18	76
Magnesium	ppm	0	<1	<1	2
Zinc	ppm	8	5	3	19
Phosphorus	ppm	2433	2298	2309	1925
Barium	ppm	0	0	0	<1
Boron	ppm	4	0	3	5

#### Diagnosis

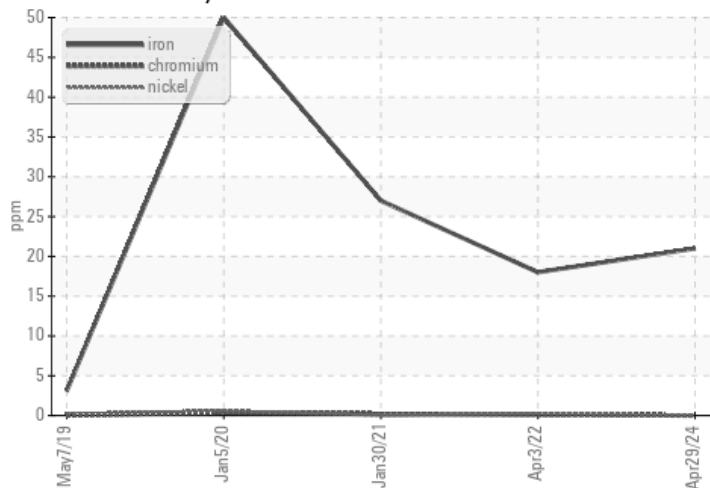
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF  
 Unique No: 11004468  
 Signed: Don Baldrige  
 Report Date: 01 May 2024

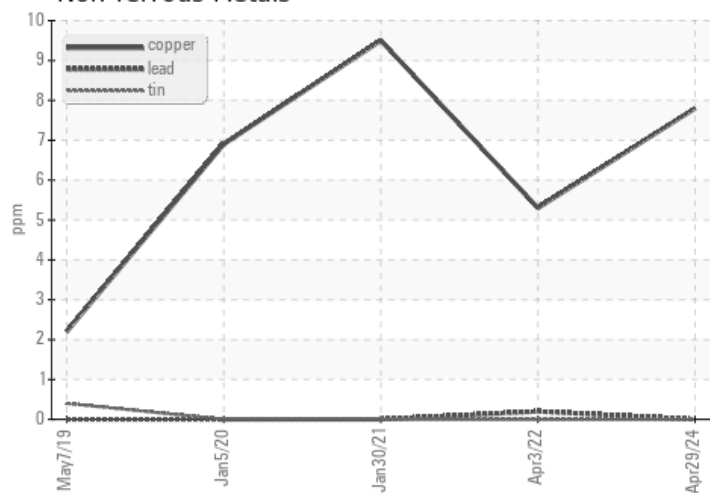


### Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

