

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107 256-1216 - Front Left Wheel Hub

Sample No: LH06169233

Oil Type: GEAR OIL SAE 80W90



DIEHL AND NUEMAIER
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Sample Information

Sample Number	LH06169233	LH05510126	LH05170954	LHMC102371
Sample Date	02 May 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	183	184	186	187
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	14	16	18	4
Sodium	ppm	13	12	9	5
Potassium	ppm	0	0	<1	7



Wear Metals

Iron	ppm	40	43	44	24
Copper	ppm	9	10	11	11
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	2	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	21	24	35	43
Magnesium	ppm	<1	0	<1	1
Zinc	ppm	23	20	14	20
Phosphorus	ppm	2199	2360	2226	1953
Barium	ppm	0	0	0	<1
Boron	ppm	0	3	2	7

Diagnosis

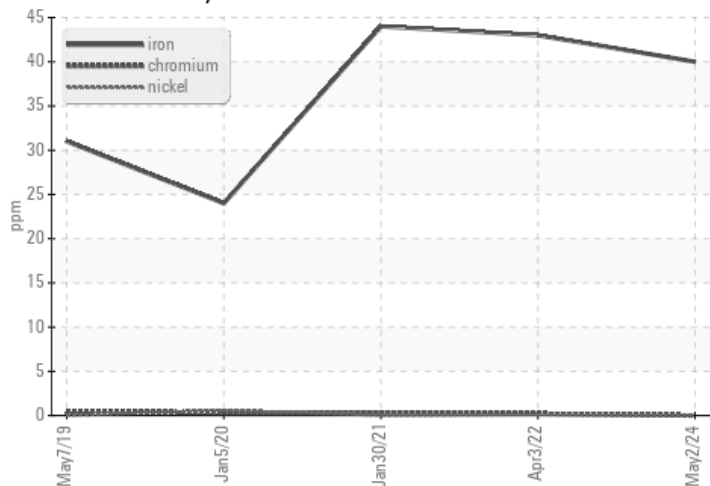
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF
Unique No: 11009952
Signed: Jonathan Hester
Report Date: 08 May 2024

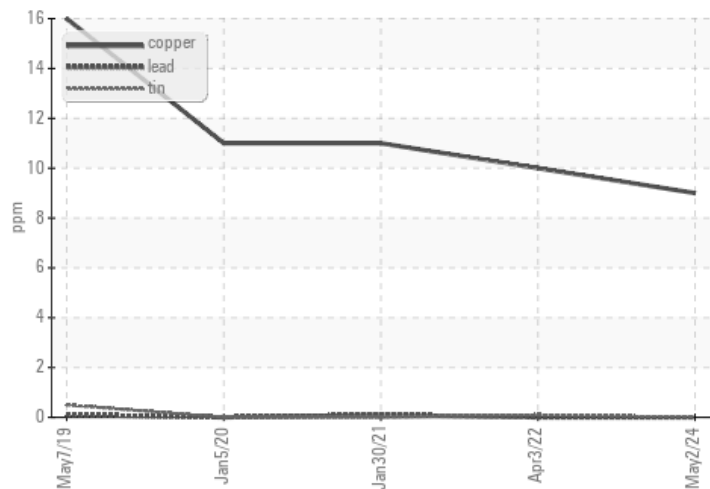


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

