

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107 256-1216 - Front Right Wheel Hub

Sample No: LH06169232

Oil Type: GEAR OIL SAE 80W90



DIEHL AND NUEMAIER
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Sample Information

Sample Number	LH06169232	LH05510127	LH05170952	LHMC102452
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	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	181	185	188	187
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	14	18	5
Sodium	ppm	14	13	12	6
Potassium	ppm	0	0	<1	0



Wear Metals

Iron	ppm	40	43	47	26
Copper	ppm	7	7	9	11
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	<1	1	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	21	33	38	44
Magnesium	ppm	0	0	1	1
Zinc	ppm	21	23	15	20
Phosphorus	ppm	2171	2266	2225	1938
Barium	ppm	0	0	0	0
Boron	ppm	0	3	3	8

Diagnosis

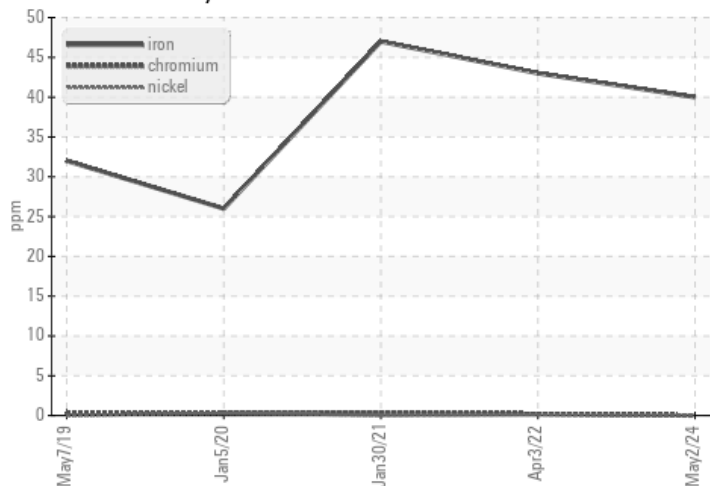
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF
 Unique No: 11009951
 Signed: Jonathan Hester
 Report Date: 08 May 2024

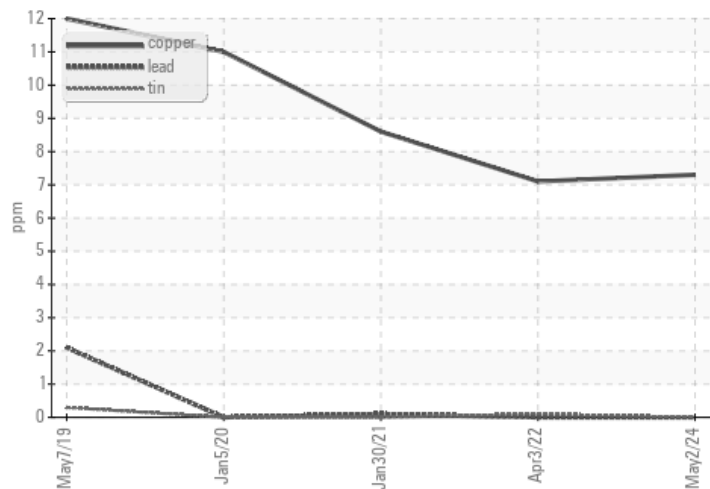


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

