

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107 256-1216 - Rear Differential

Sample No: LH06163753

Oil Type: GEAR OIL SAE 80W90



DIEHL AND NUEMAIER
 5466 NORWAY GROVE SCHOOL RD
 DE FOREST, WI
 US 53532
 Contact: ELLIOT DIEHL
 diehlneumaier@yahoo.com
 T: (608)846-4824
 F: (608)846-2077



Sample Information

Sample Number	LH06163753	LH05510128	LH05170955	LHMC141265
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	194	194	187
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	3	2	3	3
Sodium	ppm	5	4	2	5
Potassium	ppm	0	0	0	0



Wear Metals

Iron	ppm	27	17	23	20
Copper	ppm	15	6	10	12
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	<1	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	21	2	11	44
Magnesium	ppm	0	0	<1	1
Zinc	ppm	9	3	0	18
Phosphorus	ppm	2427	2425	2201	1997
Barium	ppm	0	0	0	<1
Boron	ppm	1	1	2	7

Diagnosis

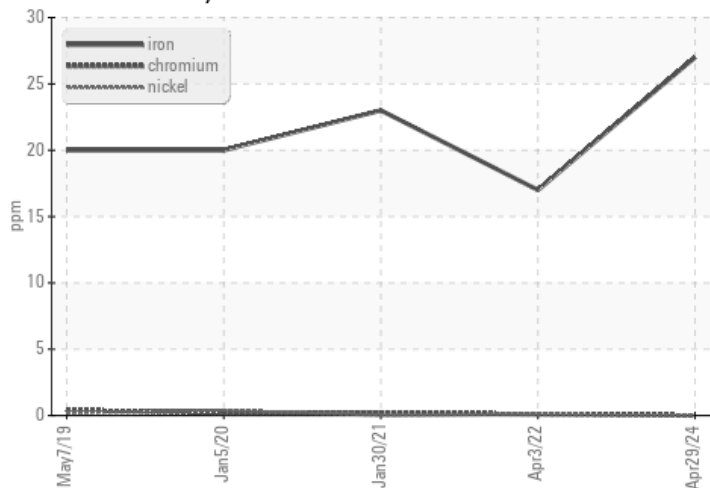
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: DIEDEF
 Unique No: 11004472
 Signed: Don Baldrige
 Report Date: 01 May 2024

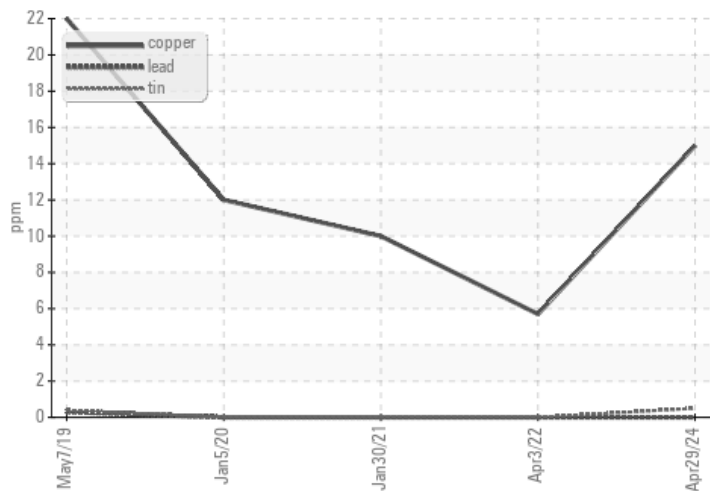


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

