

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107076-1216 - Front Right Wheel Hub

Sample No: LH0254689

Oil Type: GEAR OIL SAE 80W90



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SAMPLE INFORMATION

Sample Number	LH0254689	LH0245022	LH0236224	LH0207880
Sample Date	08 Jun 2023	10 Mar 2023	17 Oct 2022	20 Apr 2022
Machine Hours	8928	9953	9029	8173
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	135	151	182	192
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CONTAMINATION

Silicon	ppm	4	4	5	2
Sodium	ppm	2	2	5	4
Potassium	ppm	<1	<1	1	0



WEAR METALS

Iron	ppm	26	22	29	19
Copper	ppm	2	2	3	8
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	2	<1	<1	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	57	49	9	5
Magnesium	ppm	15	2	2	0
Zinc	ppm	18	11	10	8
Phosphorus	ppm	1200	1537	2388	2213
Barium	ppm	0	0	0	0
Boron	ppm	42	101	16	9

Diagnosis

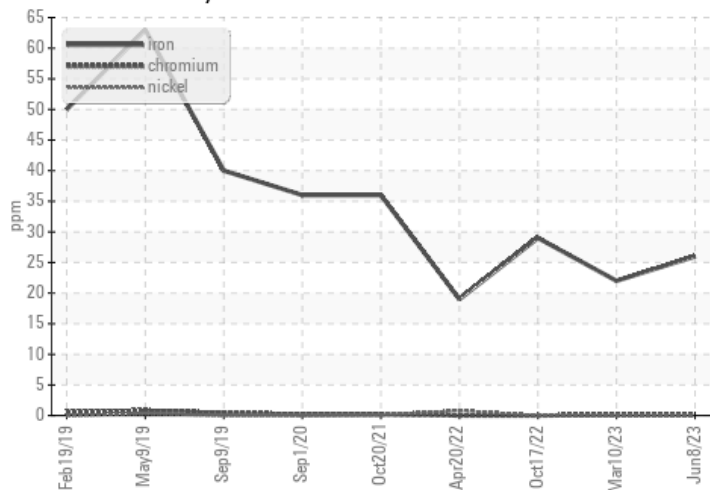
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10535771
Signed: Don Baldrige
Report Date: 30 Jun 2023

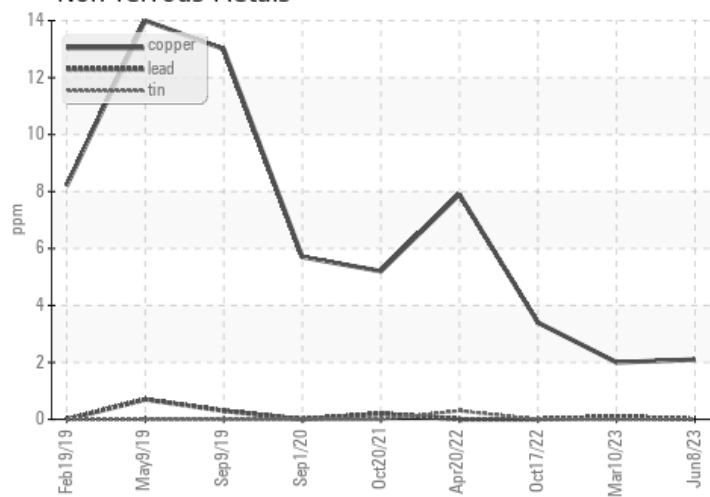


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

