

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 107076-1216 - Rear Differential

Sample No: LH0254698

Oil Type: GEAR OIL SAE 80W90



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SAMPLE INFORMATION

Sample Number	LH0254698	LH0245018	LH0236228	LH0207878
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	124	131	175	193
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CONTAMINATION

Silicon	ppm	<1	2	1	3
Sodium	ppm	<1	0	1	4
Potassium	ppm	<1	<1	<1	0



WEAR METALS

Iron	ppm	6	6	7	20
Copper	ppm	2	2	5	8
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	0	0	0
Molybdenum	ppm	3	<1	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	62	27	6	4
Magnesium	ppm	21	4	<1	0
Zinc	ppm	30	18	2	7
Phosphorus	ppm	804	740	2323	2233
Barium	ppm	0	0	0	0
Boron	ppm	19	37	4	9

Diagnosis

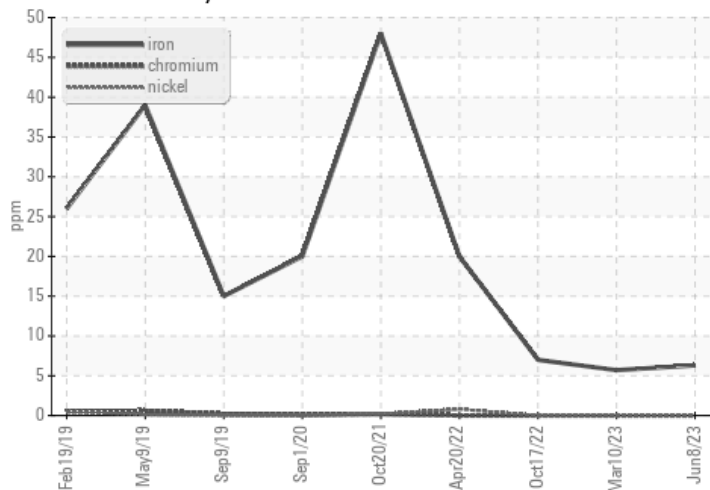
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10535767
Signed: Don Baldrige
Report Date: 30 Jun 2023

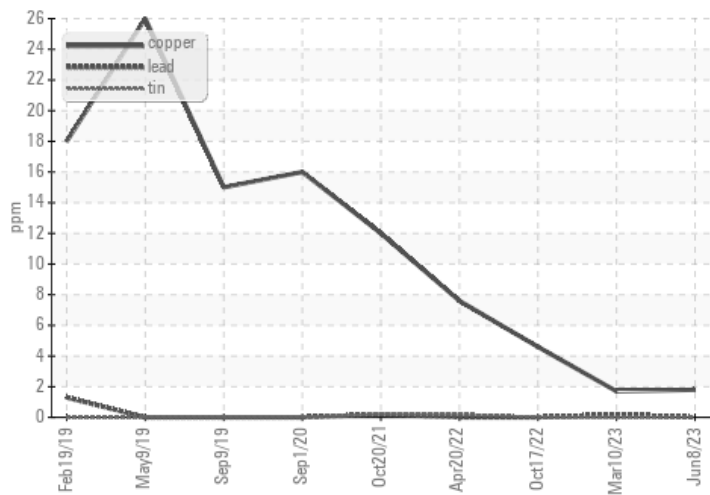


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

