

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1203-81839 - Rear Differential

Sample No: LH0243709

Oil Type: GEAR OIL SAE 85W90



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SAMPLE INFORMATION

Sample Number	LH0243709	LH0185302	LH0166800	LHMC148433
Sample Date	27 Sep 2023	04 Aug 2021	28 Sep 2020	15 May 2019
Machine Hours	0	7953	6978	4996
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	175	190	180	194
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CONTAMINATION

Silicon	ppm	1	2	1	1
Sodium	ppm	2	4	4	4
Potassium	ppm	<1	0	<1	6



WEAR METALS

Iron	ppm	16	21	26	31
Copper	ppm	3	5	9	9
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	0	<1	1
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	24	7	36	19
Magnesium	ppm	6	<1	6	<1
Zinc	ppm	13	0	13	14
Phosphorus	ppm	2085	2248	2175	2095
Barium	ppm	0	0	0	0
Boron	ppm	4	13	48	3

Diagnosis

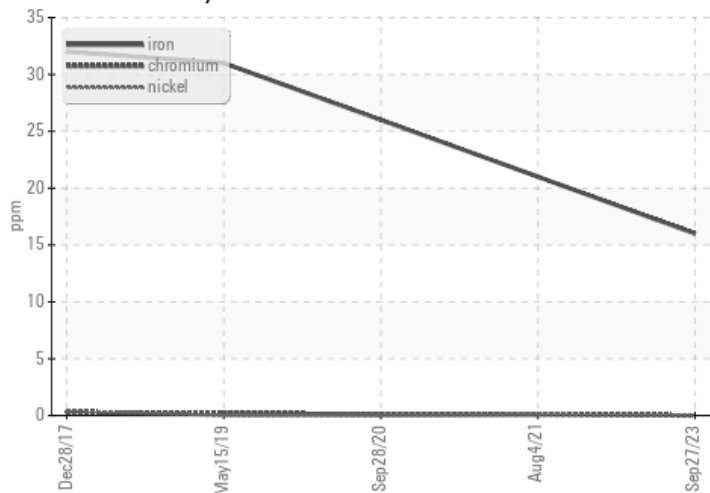
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0007
Unique No: 10673822
Signed: Sean Felton
Report Date: 04 Oct 2023

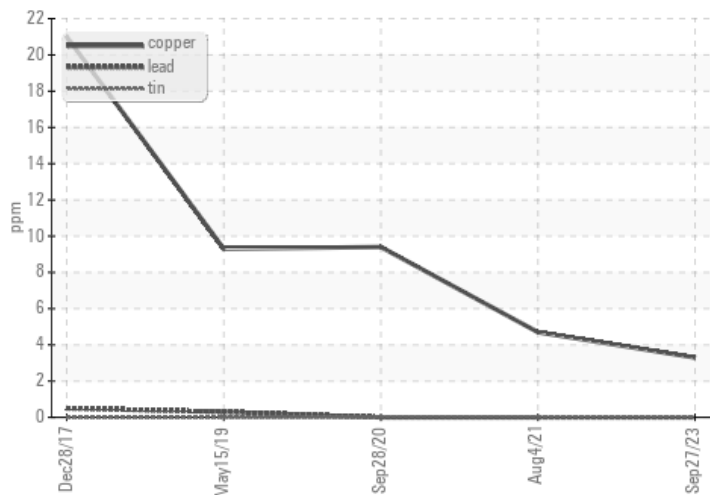


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

