

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50M 1216-117 615 - Front Left Wheel H

Sample No: LH0268509

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

Sample Number	LH0268509	LH0243179	LHMC131795	---
Sample Date	18 Dec 2023	14 Apr 2023	04 Dec 2020	---
Machine Hours	8068	6895	2028	---
Oil Hours	1173	1000	860	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	188	183	148	---
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CONTAMINATION

Water	%	NEG	NEG	0.107	---
Silicon	ppm	8	13	40	---
Sodium	ppm	6	4	14	---
Potassium	ppm	3	2	9	---



WEAR METALS

Iron	ppm	430	377	523	---
Copper	ppm	10	13	53	---
Lead	ppm	<1	0	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	0	6	---
Chromium	ppm	2	2	4	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	<1	<1	1	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	2	---
Manganese	ppm	5	4	6	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	35	59	102	---
Magnesium	ppm	2	2	5	---
Zinc	ppm	28	37	91	---
Phosphorus	ppm	2351	2254	1640	---
Barium	ppm	0	0	0	---
Boron	ppm	0	1	5	---

Diagnosis

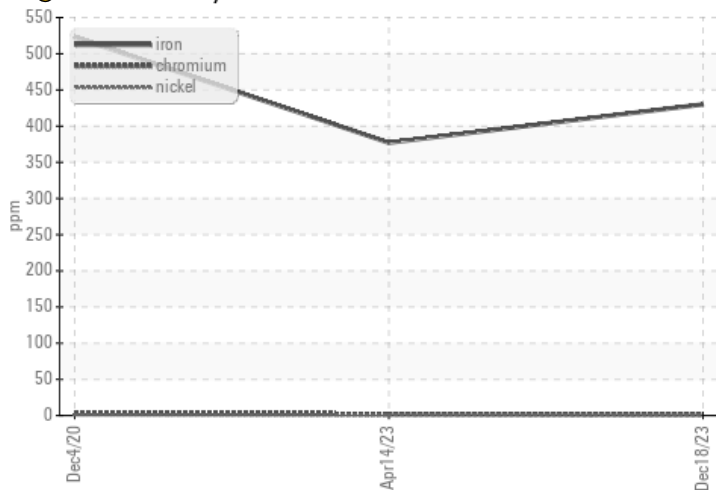
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
 Unique No: 10849967
 Signed: Don Baldrige
 Report Date: 31 Jan 2024

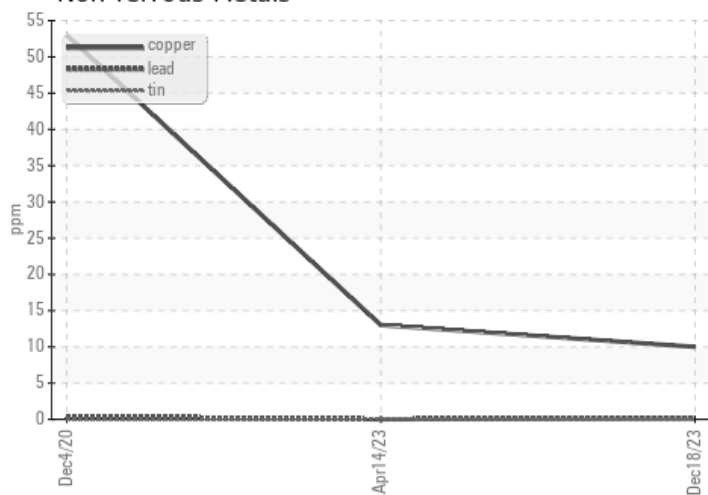


GRAPHS

● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

