

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 145582-1216 - Rear Differential

Sample No: LH0268529

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

Sample Number	LH0268529	LH0243272	LH0243210	---
Sample Date	19 Sep 2023	15 Jun 2023	15 Mar 2023	---
Machine Hours	1633	1005	461	---
Oil Hours	1633	0	461	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	● 155	● 147	● 152	---
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CONTAMINATION

Silicon	ppm	● 7	● 2	● 7	---
Sodium	ppm	● 1	● 5	● 3	---
Potassium	ppm	● 1	● 2	● 0	---



WEAR METALS

Iron	ppm	● 22	● 6	● 17	---
Copper	ppm	● 18	● 6	● 6	---
Lead	ppm	● <1	● <1	● 0	---
Tin	ppm	● 0	● <1	● 0	---
Aluminum	ppm	● <1	● 2	● 0	---
Chromium	ppm	● <1	● <1	● <1	---
Molybdenum	ppm	● 4	● <1	● 4	---
Nickel	ppm	● 0	● <1	● 0	---
Titanium	ppm	0	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	● <1	● 1	● 2	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	● 170	● 6	● 190	---
Magnesium	ppm	● 1	● 6	● 4	---
Zinc	ppm	● 36	● 3	● 24	---
Phosphorus	ppm	● 1445	● 1548	● 1438	---
Barium	ppm	● 0	● 97	● 0	---
Boron	ppm	● 5	● 111	● 10	---

Diagnosis

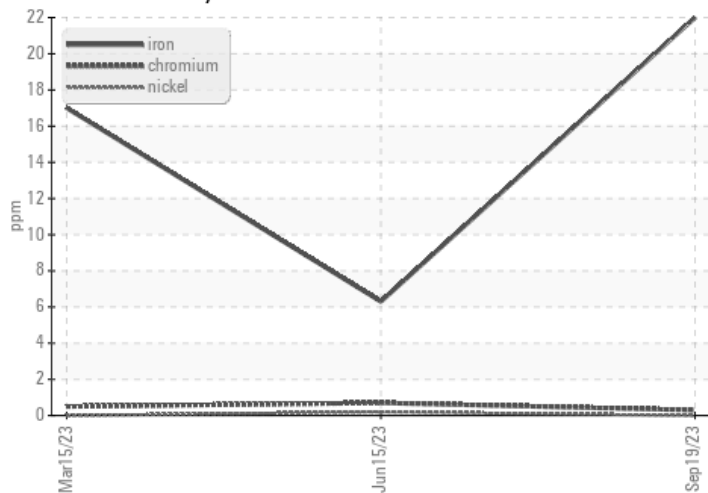
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRLH
Unique No: 10669690
Signed: Don Baldrige
Report Date: 29 Sep 2023

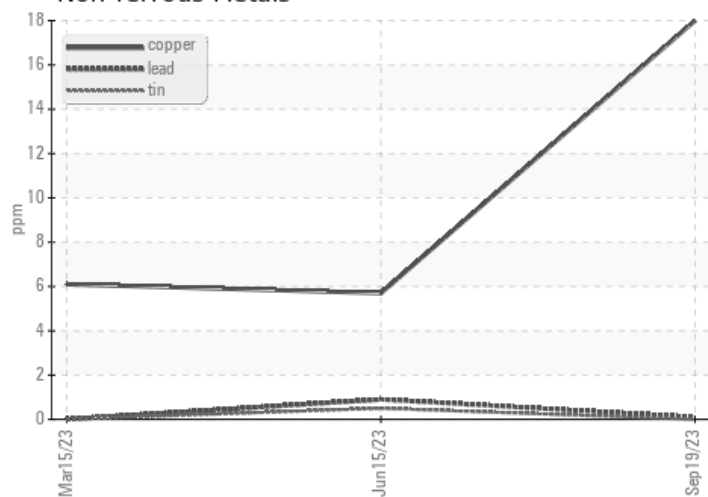


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

