

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 145582-1216 - Front Differential

Sample No: LH0243264

Oil Type: LIEBHERR GEAR BASIC 90 LS



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SAMPLE INFORMATION

Sample Number	LH0243264	LH0243212	---	---
Sample Date	15 Jun 2023	15 Mar 2023	---	---
Machine Hours	1008	461	---	---
Oil Hours	0	461	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 163	● 146	---	---
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CONTAMINATION

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



WEAR METALS

Iron	ppm	● 20	● 4	---	---
Copper	ppm	● 12	● 4	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	● <1	● 0	---	---
Aluminum	ppm	● 2	● 0	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 4	● <1	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 1	● 1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	● 188	● 9	---	---
Magnesium	ppm	● 6	● 2	---	---
Zinc	ppm	33	● 0	---	---
Phosphorus	ppm	● 1534	● 1444	---	---
Barium	ppm	● 2	● 83	---	---
Boron	ppm	● 9	● 106	---	---

Diagnosis

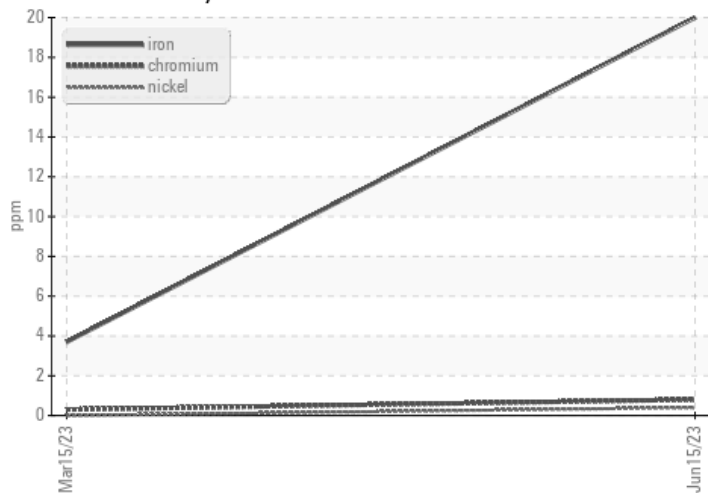
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 10535225
Signed: Jonathan Hester
Report Date: 30 Jun 2023

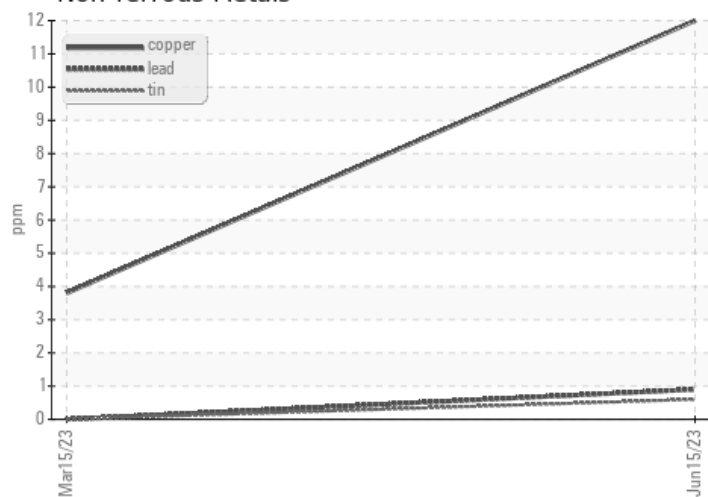


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

