

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Front Left Wheel Hub

Sample No: LH0272486

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0272486	LH0243155	---	---
Sample Date	30 Oct 2023	11 Jan 2023	---	---
Machine Hours	1993	473	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	● 123	● 162	---	---
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CONTAMINATION

Silicon	ppm	● 2	● 15	---	---
Sodium	ppm	● 4	● 4	---	---
Potassium	ppm	● <1	● 2	---	---

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.



WEAR METALS

Iron	ppm	● 39	● 68	---	---
Copper	ppm	● 16	● 19	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● 0	● 2	---	---
Chromium	ppm	● 0	● <1	---	---
Molybdenum	ppm	● 0	● 2	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 1	● 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

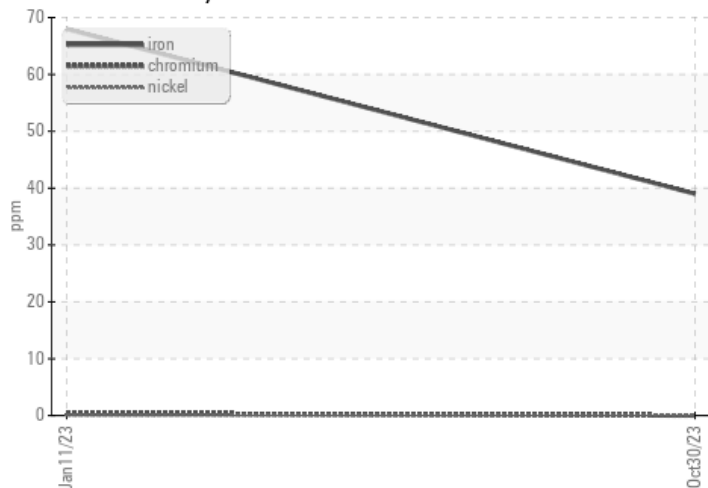
Calcium	ppm	● 27	● 102	---	---
Magnesium	ppm	● 10	● 16	---	---
Zinc	ppm	● 23	● 34	---	---
Phosphorus	ppm	● 644	● 1382	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● <1	● 3	---	---

Depot: LEC0008
 Unique No: 10728449
 Signed: Sean Felton
 Report Date: 08 Nov 2023

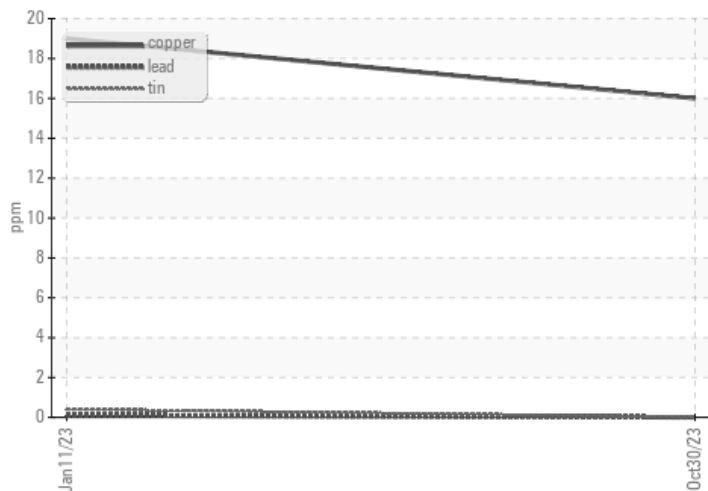


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

