

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 TIMBER 1474-138132 - Front Axle

Sample No: LH0267627

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
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SAMPLE INFORMATION

Sample Number	LH0267627	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	3100	---	---	---
Oil Hours	1000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 190	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 10	---	---	---
Sodium	ppm	● 2	---	---	---
Potassium	ppm	● <1	---	---	---



WEAR METALS

Iron	ppm	● 159	---	---	---
Copper	ppm	● 66	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● 0	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 2	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	● 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	● 5	---	---	---
Magnesium	ppm	● <1	---	---	---
Zinc	ppm	● 46	---	---	---
Phosphorus	ppm	● 1105	---	---	---
Barium	ppm	● 372	---	---	---
Boron	ppm	● 1	---	---	---

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. The copper level is abnormal. 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.

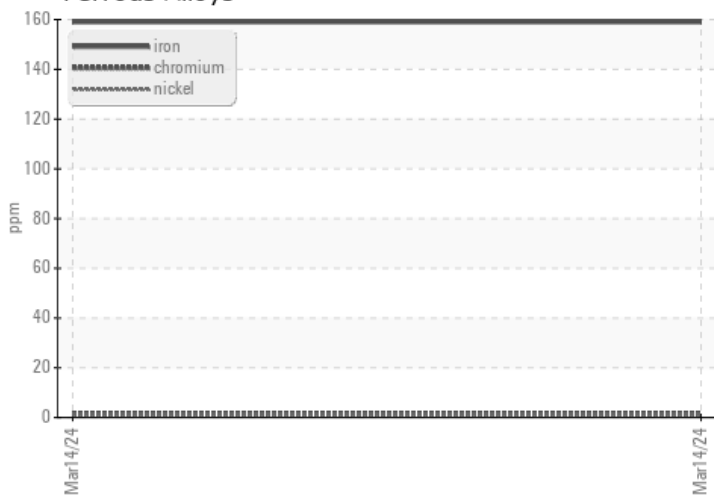
Depot: LIEBHERRNC
 Unique No: 10928645
 Signed: Sean Felton
 Report Date: 19 Mar 2024

Submitted By: TAYLOR BLALOCK

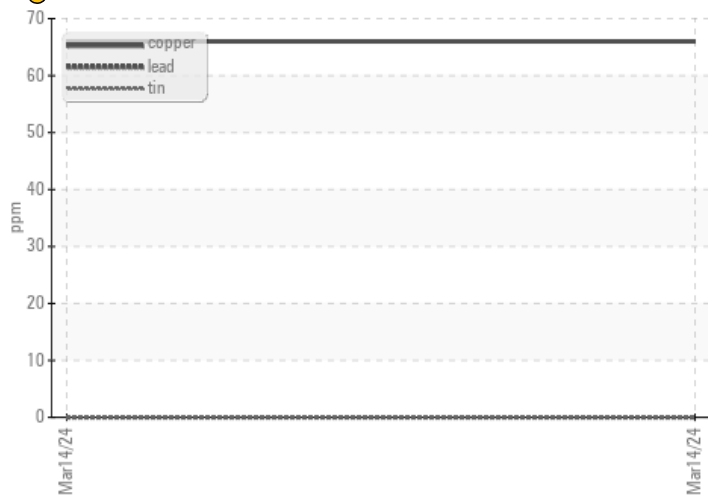


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

