

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 121879-1217 - Rear Right Wheel Hub

Sample No: LH0268865

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR EQUIPMENT SOURCE
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
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SAMPLE INFORMATION

Sample Number	LH0268865	LH0173638	---	---
Sample Date	27 Feb 2024	29 Mar 2022	---	---
Machine Hours	7442	3095	---	---
Oil Hours	0	2000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 182	● 183	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	● 4	● 3	---	---
Sodium	ppm	● 6	● 5	---	---
Potassium	ppm	● 2	● 0	---	---



WEAR METALS

Iron	ppm	● 86	● 63	---	---
Copper	ppm	● 73	● 34	---	---
Lead	ppm	● 0	● <1	---	---
Tin	ppm	● <1	● <1	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	● <1	---	---
Nickel	ppm	● <1	● <1	---	---
Titanium	ppm	● 0	● 0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	● 2	● 2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 11	● 33	---	---
Magnesium	ppm	● 2	● 0	---	---
Zinc	ppm	● 44	● 26	---	---
Phosphorus	ppm	● 1414	● 1447	---	---
Barium	ppm	306	● 246	---	---
Boron	ppm	● <1	● 6	---	---

Diagnosis

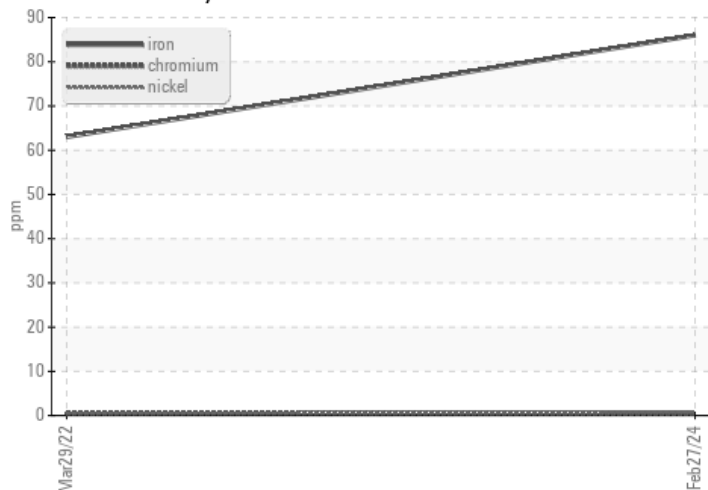
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition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

Depot: LIEBHERRUS
 Unique No: 10915842
 Signed: Don Baldrige
 Report Date: 11 Mar 2024

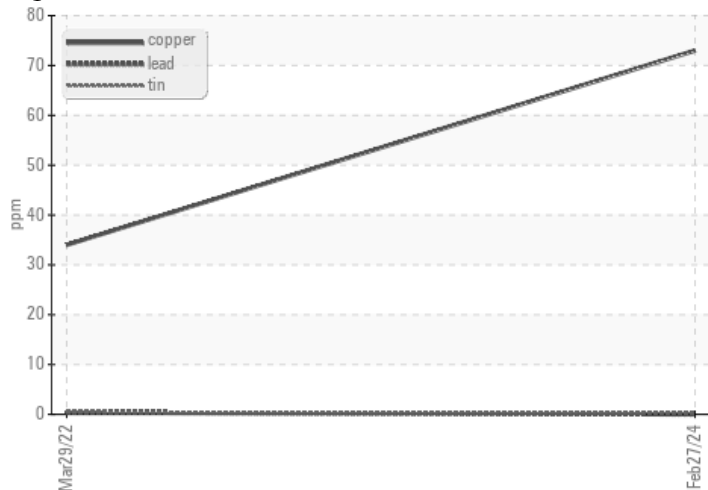


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

