

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 093999-1215 - Front Left Wheel Hub

Sample No: LH0243902

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	LH0243902	---	---	---
Sample Date	28 Feb 2024	---	---	---
Machine Hours	13886	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 178	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	● 67	---	---	---
Sodium	ppm	● 38	---	---	---
Potassium	ppm	● 13	---	---	---



WEAR METALS

Iron	ppm	● 911	---	---	---
Copper	ppm	● 153	---	---	---
Lead	ppm	● 2	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 18	---	---	---
Chromium	ppm	● 6	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	● 1	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 18	---	---	---
Vanadium	ppm	● <1	---	---	---



ADDITIVES

Calcium	ppm	● 62	---	---	---
Magnesium	ppm	● 7	---	---	---
Zinc	ppm	● 182	---	---	---
Phosphorus	ppm	● 2059	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

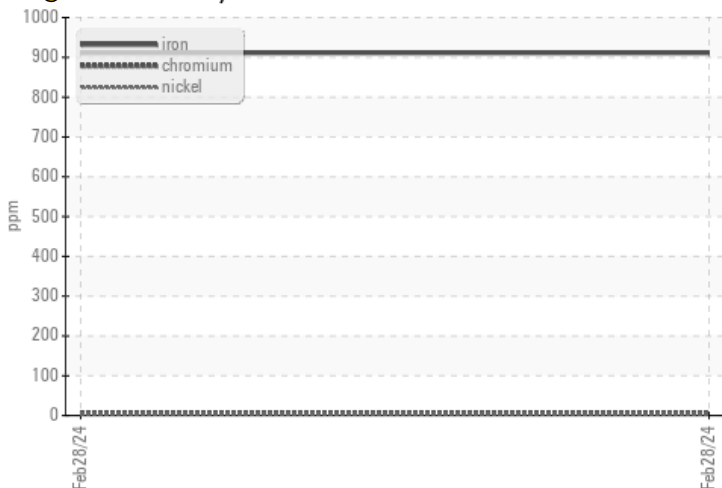
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
Unique No: 10915872
Signed: Jonathan Hester
Report Date: 19 Mar 2024

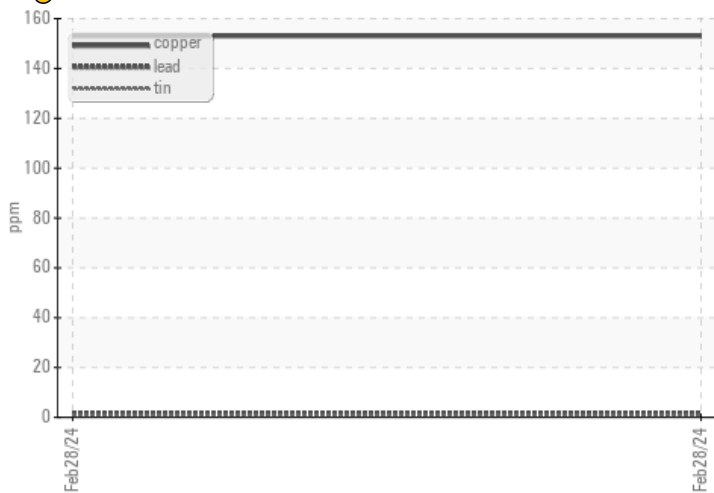


GRAPHS

● Ferrous Alloys



● Non-ferrous Metals



Viscosity @ 40°C

