

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 093999-1215 - Front Right Wheel Hub

Sample No: LH0243898

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	LH0243898	---	---	---
Sample Date	07 Mar 2024	---	---	---
Machine Hours	13900	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



Oil Condition

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

Water	%	NEG	---	---	---
Silicon	ppm	● 135	---	---	---
Sodium	ppm	● 16	---	---	---
Potassium	ppm	● 13	---	---	---



Wear Metals

Iron	ppm	● 1131	---	---	---
Copper	ppm	● 198	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 33	---	---	---
Chromium	ppm	● 8	---	---	---
Molybdenum	ppm	● 0	---	---	---
Nickel	ppm	● 3	---	---	---
Titanium	ppm	● 3	---	---	---
Silver	ppm	● 0	---	---	---
Manganese	ppm	● 17	---	---	---
Vanadium	ppm	● <1	---	---	---



Additives

Calcium	ppm	● 50	---	---	---
Magnesium	ppm	● 6	---	---	---
Zinc	ppm	● 171	---	---	---
Phosphorus	ppm	● 2355	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Diagnosis

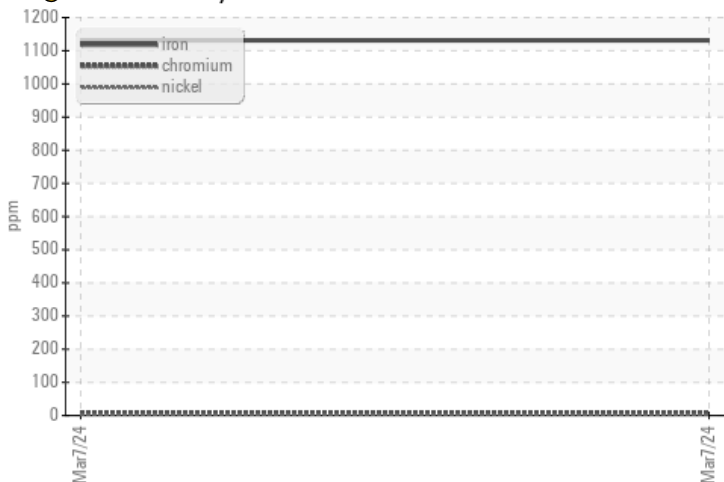
We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: LIEBHERRUS
Unique No: 10955352
Signed: Jonathan Hester
Report Date: 04 Apr 2024

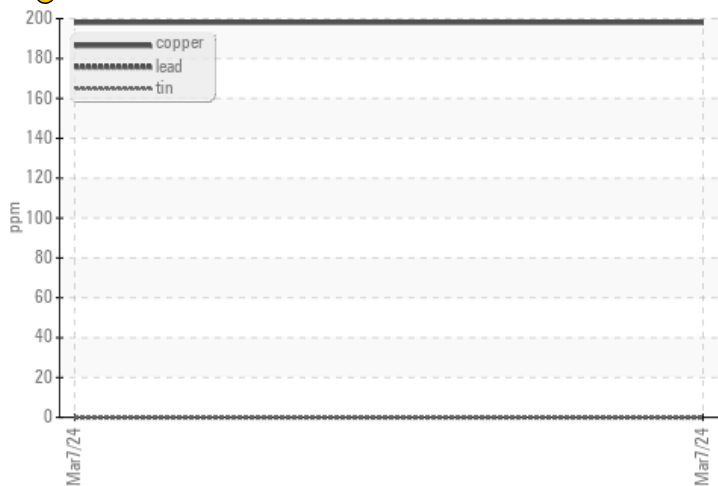


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

