

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 087885-1202 - Rear Left Wheel Hub

Sample No: LH0258379

Oil Type: GEAR OIL SAE 80W90



HEAVY MACHINES INC
 7651 THEODORE DAWES RD
 THEODORE, AL
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Sample Information

Sample Number	LH0258379	LHMC155052	---	---
Sample Date	28 Apr 2024	21 Nov 2019	---	---
Machine Hours	15270	0	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



Oil Condition

Visc @ 40°C	cSt	● 129	● 141	---	---
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Contamination

Water	%	NEG	NEG	---	---
Silicon	ppm	● 6	● 4	---	---
Sodium	ppm	● 14	● 8	---	---
Potassium	ppm	● 3	● 0	---	---



Wear Metals

Iron	ppm	● 432	● 67	---	---
Copper	ppm	● 182	● 35	---	---
Lead	ppm	● <1	● 0	---	---
Tin	ppm	● 0	● 0	---	---
Aluminum	ppm	● 5	● <1	---	---
Chromium	ppm	● 2	● <1	---	---
Molybdenum	ppm	● 13	0	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	● 0	● 0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● 9	1	---	---
Vanadium	ppm	0	0	---	---



Additives

Calcium	ppm	● 53	61	---	---
Magnesium	ppm	● 2	3	---	---
Zinc	ppm	● 127	40	---	---
Phosphorus	ppm	● 1496	1078	---	---
Barium	ppm	● <1	0	---	---
Boron	ppm	● 163	102	---	---

Diagnosis

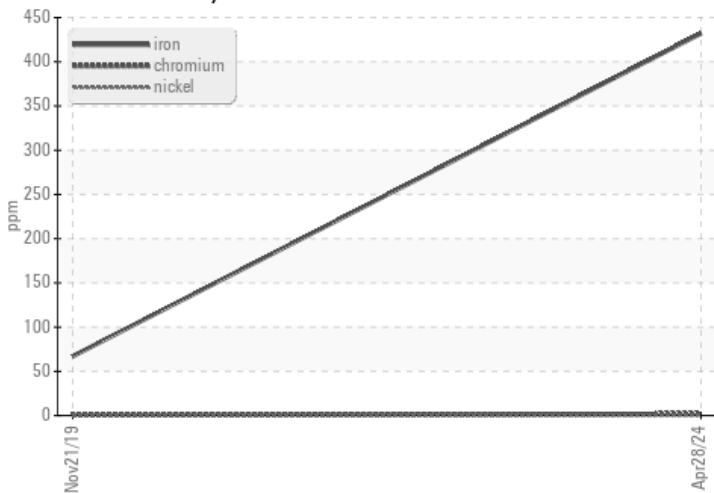
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or bushing wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition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

Depot: HEATHE
 Unique No: 11009881
 Signed: Don Baldrige
 Report Date: 08 May 2024

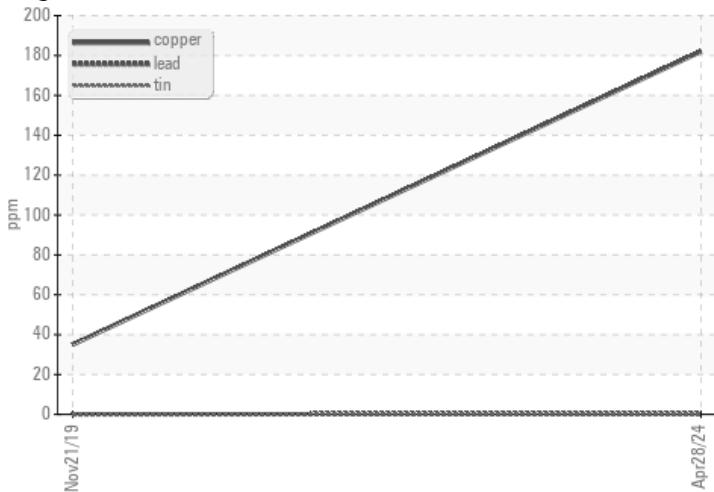


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

