

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 120561-1217 - Front Left Wheel Hub

Sample No: LH0253862

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



SAMPLE INFORMATION

Sample Number	LH0253862	LH0220675	LH0199951	---
Sample Date	08 Sep 2023	22 Nov 2022	11 Feb 2022	---
Machine Hours	3762	1973	983	---
Oil Hours	0	1000	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	155	184	187	---
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CONTAMINATION

Silicon	ppm	3	4	3	---
Sodium	ppm	4	4	4	---
Potassium	ppm	0	0	1	---



WEAR METALS

Iron	ppm	271	50	130	---
Copper	ppm	36	17	24	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	4	<1	2	---
Chromium	ppm	3	<1	2	---
Molybdenum	ppm	2	0	<1	---
Nickel	ppm	0	<1	<1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	4	1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	28	7	19	---
Magnesium	ppm	5	2	2	---
Zinc	ppm	41	7	43	---
Phosphorus	ppm	945	994	1213	---
Barium	ppm	148	328	363	---
Boron	ppm	0	4	2	---

Diagnosis

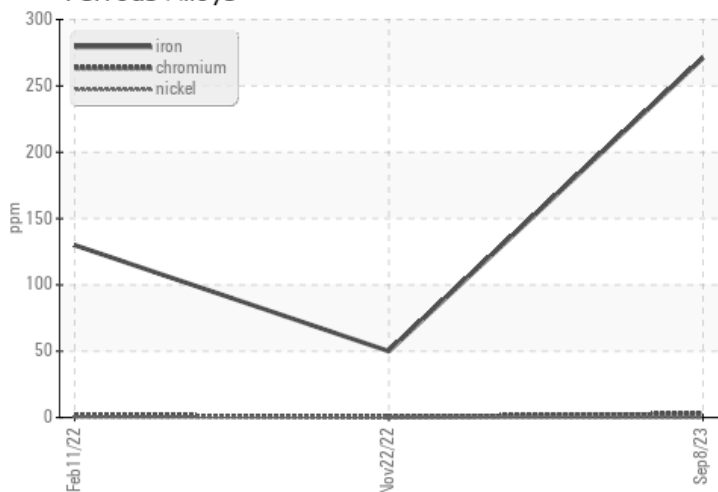
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
Unique No: 10670882
Signed: Don Baldrige
Report Date: 01 Oct 2023

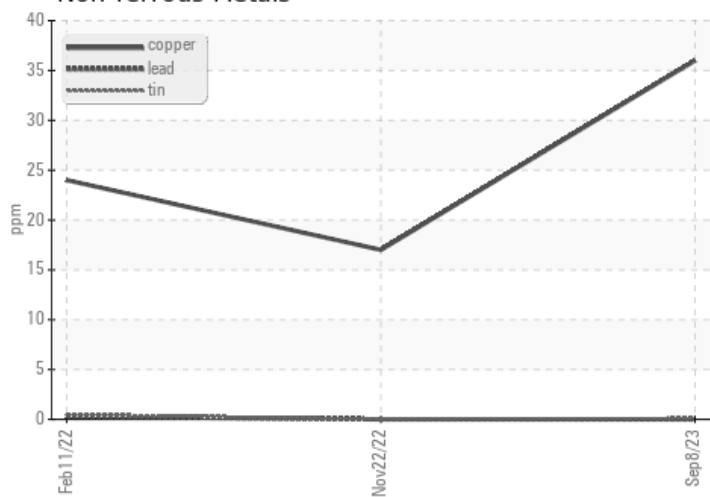


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

