

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Front Left Wheel Hub

Sample No: LH0264760

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
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Sample Information

Sample Number	LH0264760	LH0272486	LH0243155	---
Sample Date	20 May 2024	30 Oct 2023	11 Jan 2023	---
Machine Hours	3013	1993	473	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



Oil Condition

Visc @ 40°C	cSt	120	123	162	---
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Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	2	2	15	---
Sodium	ppm	3	4	4	---
Potassium	ppm	0	<1	2	---



Wear Metals

Iron	ppm	48	39	68	---
Copper	ppm	11	16	19	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	0	0	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	2	0	2	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	1	3	---
Vanadium	ppm	0	0	0	---



Additives

Calcium	ppm	50	27	102	---
Magnesium	ppm	4	10	16	---
Zinc	ppm	31	23	34	---
Phosphorus	ppm	912	644	1382	---
Barium	ppm	0	0	0	---
Boron	ppm	0	<1	3	---

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

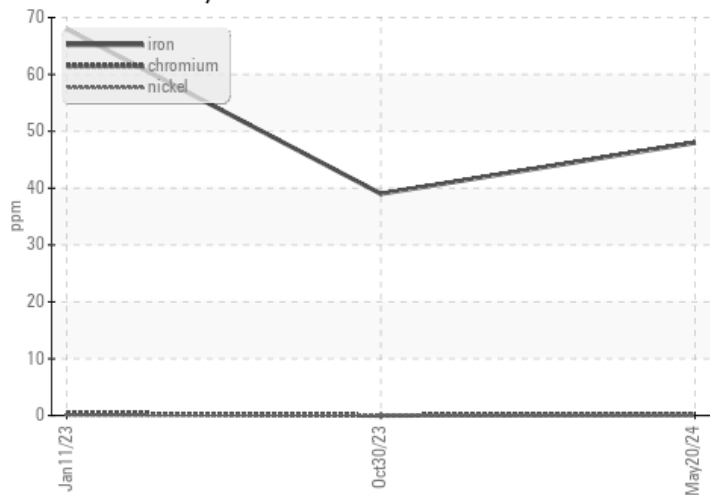
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 11048112
 Signed: Wes Davis
 Report Date: 28 May 2024

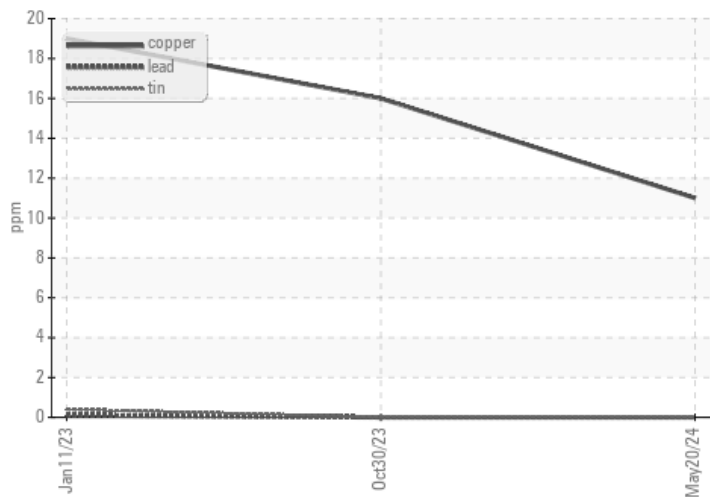


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

