

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-98638 - Front Left Wheel Hub

Sample No: LH0268265

Oil Type: LIEBHERR GEAR BASIC 90 LS



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0268265	LH0263931	LH0245045	LH0221003
Sample Date	25 Jan 2024	17 Aug 2023	29 Mar 2023	29 Sep 2022
Machine Hours	13406	12191	11277	10101
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	122	127	142	186
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CONTAMINATION

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



WEAR METALS

Iron	ppm	31	27	21	39
Copper	ppm	4	7	4	8
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	0	1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	<1	0	0
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	22	28	47	7
Magnesium	ppm	0	6	3	<1
Zinc	ppm	10	21	19	12
Phosphorus	ppm	835	847	1122	2393
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	2	4

Diagnosis

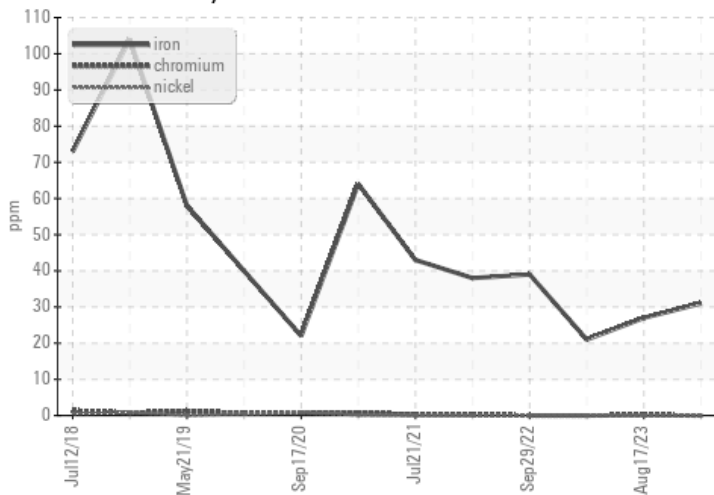
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0007
 Unique No: 10857287
 Signed: Sean Felton
 Report Date: 01 Feb 2024

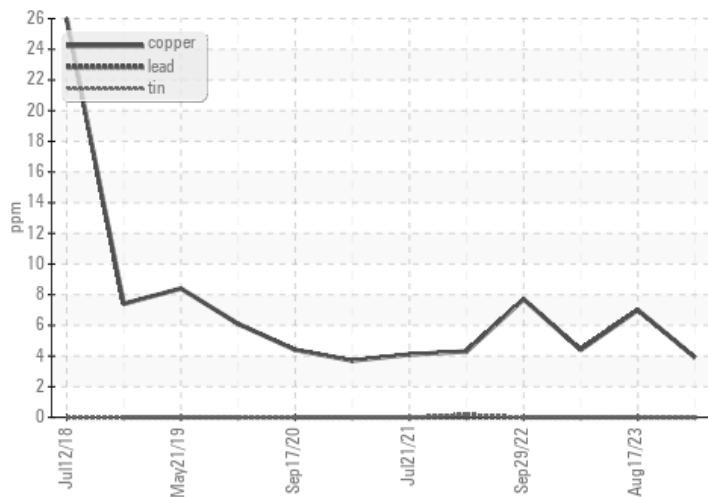


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

