

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-108671 - Front Left Wheel Hub

Sample No: LH0268417

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	LH0268417	LH0258753	LH0263993	LH0243413
Sample Date	14 Jun 2024	23 Feb 2024	14 Dec 2023	05 Sep 2023
Machine Hours	21235	20036	19125	17864
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	123	121	124	129
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Contamination

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



Wear Metals

Iron	ppm	10	15	15	16
Copper	ppm	2	1	1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	0	0
Chromium	ppm	0	0	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	<1	<1	1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	41	57	68	65
Magnesium	ppm	5	9	13	20
Zinc	ppm	20	26	21	28
Phosphorus	ppm	994	849	840	643
Barium	ppm	0	0	0	0
Boron	ppm	13	4	4	8

Diagnosis

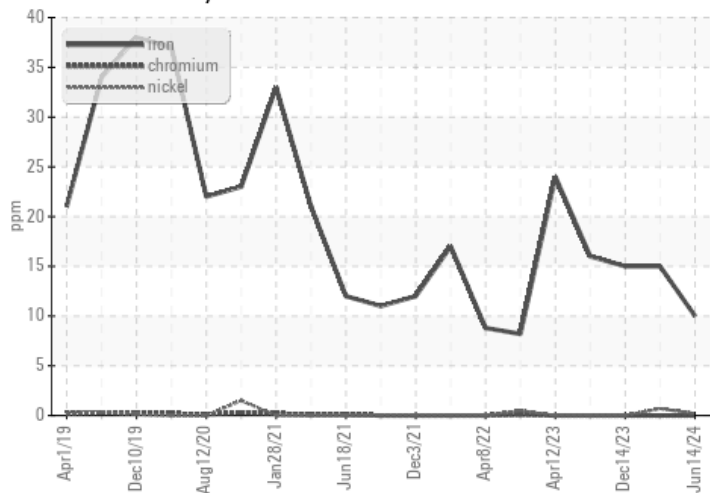
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 11097175
 Signed: Don Baldrige
 Report Date: 26 Jun 2024

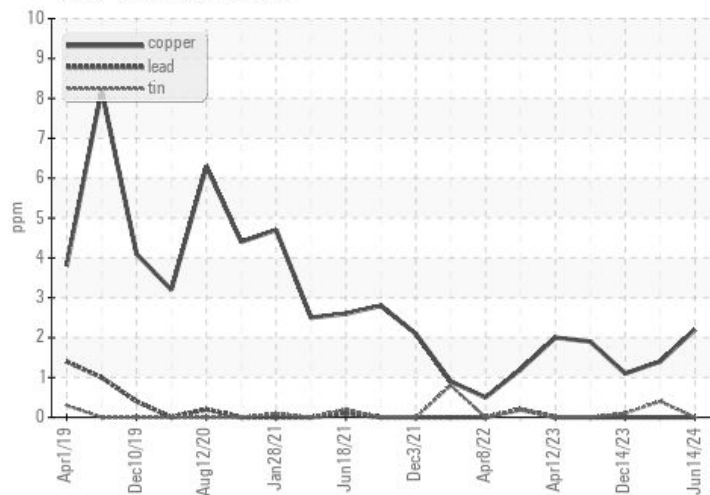


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

