

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 1216-108671 - Front Right Wheel Hub

Sample No: LH0268414

Oil Type: GEAR OIL LS 80W90



AMERICAN STATE EQUIPMENT CO.
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Sample Information

Sample Number	LH0268414	LH0258826	LH0263992	LH0243416
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	121	122	124	128
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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	2	0	<1



Wear Metals

Iron	ppm	11	12	14	16
Copper	ppm	3	<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	43	59	68	63
Magnesium	ppm	5	9	16	20
Zinc	ppm	20	25	22	22
Phosphorus	ppm	991	845	859	642
Barium	ppm	0	0	0	0
Boron	ppm	16	<1	4	9

Diagnosis

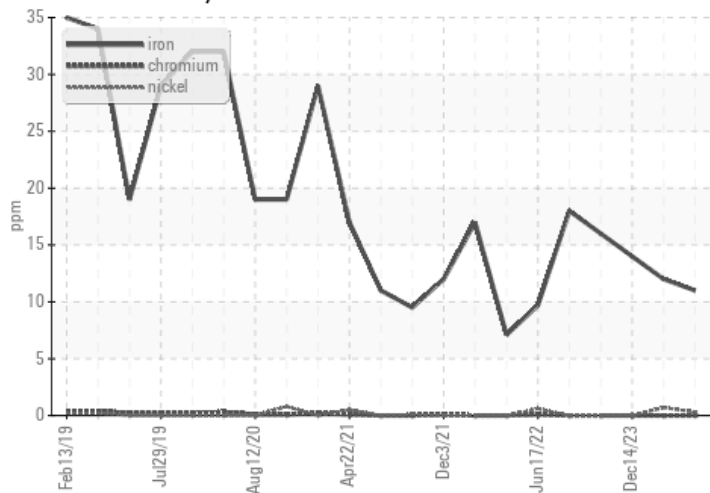
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 11097177
 Signed: Wes Davis
 Report Date: 25 Jun 2024

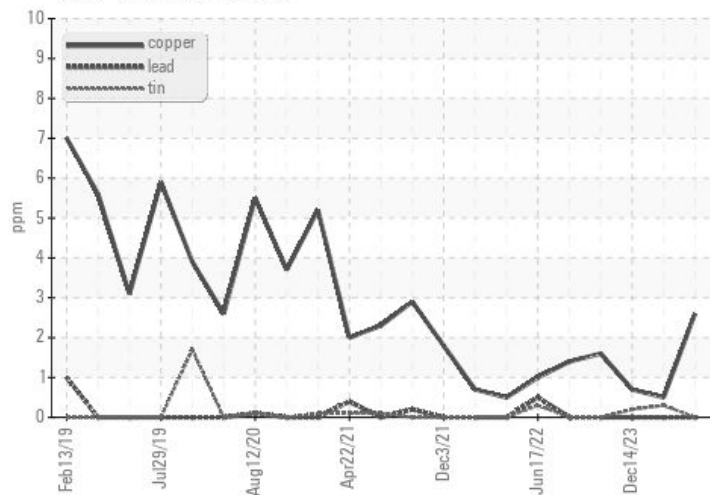


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

