

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131051 - Rear Right Wheel Hub

Sample No: LH0272175

Oil Type: MOBIL MOBILUBE SHC 75W140



SAMPLE INFORMATION

Sample Number	LH0272175	LH0213100	LH0213114	LH0213016
Sample Date	18 Dec 2023	30 Aug 2023	24 Jan 2023	03 Dec 2021
Machine Hours	10742	9736	7995	1664
Oil Hours	1000	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST
INTERNATIONAL FALLS, MN
US 56649
Contact: GARY MANN
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T:
F: (218)285-5860



OIL CONDITION

Visc @ 40°C	cSt	131	176	157	158
		●	●		



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 8	● 13	● 17	● 21
Sodium	ppm	● 0	● 3	● 2	● 0
Potassium	ppm	● 2	● 1	● 0	● 1



WEAR METALS

Iron	ppm	● 144	● 129	● 147	● 83
Copper	ppm	● 14	● 12	● 100	● 61
Lead	ppm	● <1	● 0	● 3	● <1
Tin	ppm	● 0	● 0	● 0	● 0
Aluminum	ppm	● 1	● 2	● 2	● 4
Chromium	ppm	● <1	● <1	● 1	● <1
Molybdenum	ppm	3	0	4	5
Nickel	ppm	● <1	● <1	● <1	● 0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	2	2	4	3
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	83	11	98	210
Magnesium	ppm	18	0	2	2
Zinc	ppm	40	4	60	70
Phosphorus	ppm	784	527	1555	1658
Barium	ppm	0	0	2	3
Boron	ppm	16	14	56	9

Diagnosis

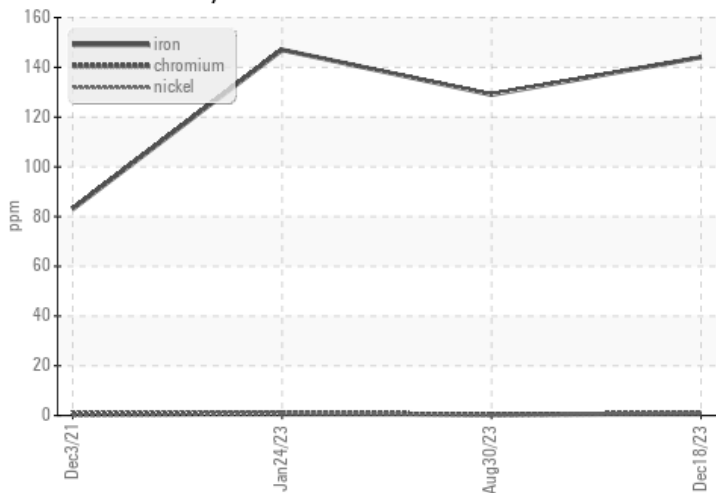
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: BOIINT
Unique No: 10845856
Signed: Don Baldrige
Report Date: 25 Jan 2024

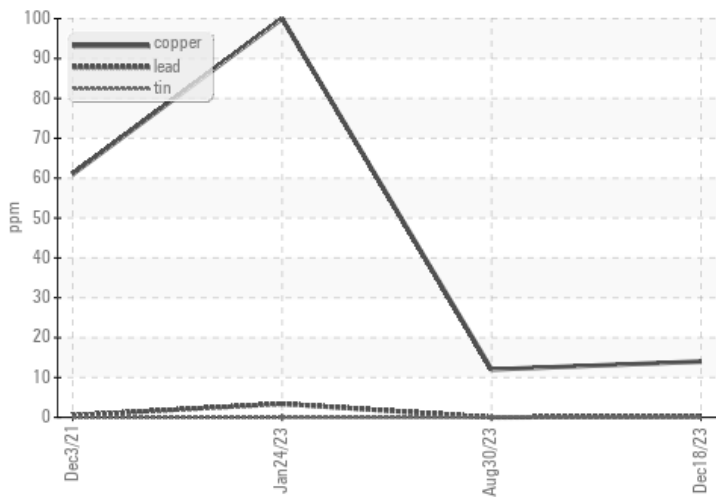


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

