

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-116574 - Rear Left Wheel Hub

Sample No: LH0272154

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0272154	LH0171139	LH0171118	LH0171111
Sample Date	20 Dec 2023	29 Aug 2023	27 Apr 2023	27 Jan 2023
Machine Hours	19776	17910	16726	14930
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

#### BOISE WHITE PAPER

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



#### OIL CONDITION

Visc @ 40°C	cSt	124	142	174	151



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	2	3	4	9
Sodium	ppm	2	2	3	3
Potassium	ppm	0	0	1	0



#### WEAR METALS

Iron	ppm	48	79	80	204
Copper	ppm	12	14	11	51
Lead	ppm	0	0	0	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	0	<1	<1	0
Chromium	ppm	0	0	0	1
Molybdenum	ppm	3	2	0	<1
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	1	2	4
Vanadium	ppm	<1	<1	0	0



#### ADDITIVES

Calcium	ppm	100	39	14	57
Magnesium	ppm	19	6	2	2
Zinc	ppm	46	16	9	47
Phosphorus	ppm	786	1088	2119	1845
Barium	ppm	0	0	0	<1
Boron	ppm	27	20	28	166

#### 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.

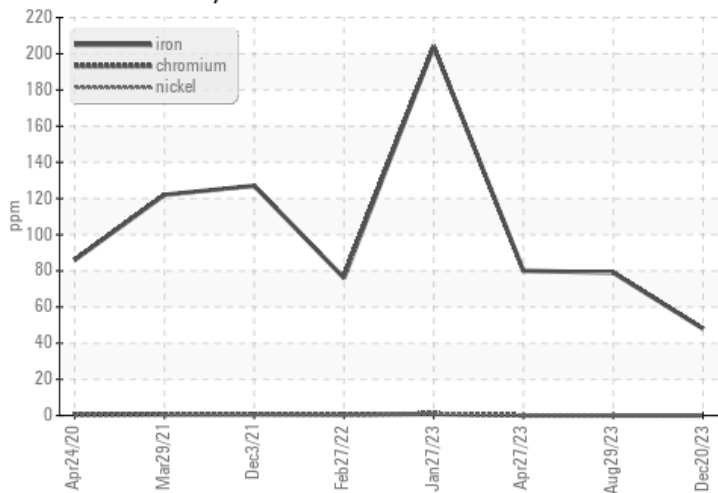
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: BOIINT  
Unique No: 10844580  
Signed: Wes Davis  
Report Date: 23 Jan 2024

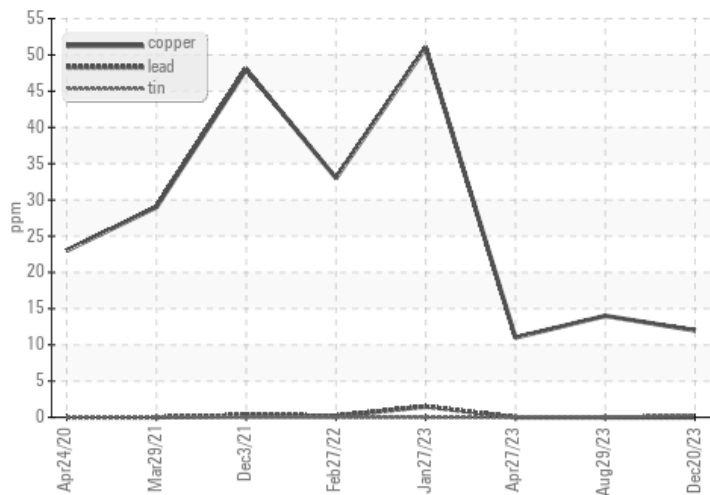


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

