

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-116574 - Front Right Wheel Hub

Sample No: LH0171124

Oil Type: MOBIL MOBILUBE SHC 75W140



SAMPLE INFORMATION

Sample Number	LH0171124	LH0171115	LH0171110	LH0171180
Sample Date	29 Aug 2023	27 Apr 2023	27 Jan 2023	03 Dec 2021
Machine Hours	17910	16762	14930	8820
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	ABNORMAL

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	186	148	152	163



CONTAMINATION

Element	ppm	63	25	14	4
Silicon	ppm	63	25	14	4
Sodium	ppm	9	7	5	3
Potassium	ppm	4	3	<1	<1



WEAR METALS

Element	ppm	1546	698	805	152
Iron	ppm	1546	698	805	152
Copper	ppm	123	52	57	116
Lead	ppm	1	0	2	<1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	14	8	3	4
Chromium	ppm	4	4	5	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	1	<1	1	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	17	9	8	5
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Element	ppm	10	14	11	11
Calcium	ppm	10	14	11	11
Magnesium	ppm	<1	<1	2	3
Zinc	ppm	101	73	67	86
Phosphorus	ppm	397	1829	1554	1693
Barium	ppm	0	0	0	0
Boron	ppm	1	87	121	259

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: BOIINT
Unique No: 10633772
Signed: Jonathan Hester
Report Date: 08 Sep 2023

LIEBHERR

CONSTRUCTION EQUIPMENT



GRAPHS

