

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1216-131051 - Front Right Wheel Hub

Sample No: LH0213098

Oil Type: MOBIL MOBILUBE SHC 75W140



#### SAMPLE INFORMATION

Sample Number	LH0213098	LH0213021	LH0213112	LH0213014
Sample Date	30 Aug 2023	25 Apr 2023	24 Jan 2023	03 Dec 2021
Machine Hours	9756	0	7995	1664
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  
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#### OIL CONDITION

Visc @ 40°C	cSt	138	145	165	157



#### CONTAMINATION

Element	ppm	4	5	7	33
Silicon	ppm	4	5	7	33
Sodium	ppm	8	5	7	0
Potassium	ppm	2	3	<1	1



#### WEAR METALS

Element	ppm	236	168	227	321
Iron	ppm	236	168	227	321
Copper	ppm	66	26	47	51
Lead	ppm	0	0	2	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	3	2	<1	5
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	2	1	5
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	4	3	5	4
Vanadium	ppm	<1	0	0	0



#### ADDITIVES

Element	ppm	51	67	78	94
Calcium	ppm	51	67	78	94
Magnesium	ppm	5	8	2	<1
Zinc	ppm	41	44	66	51
Phosphorus	ppm	1034	1279	1620	1508
Barium	ppm	0	0	0	0
Boron	ppm	44	87	130	13

#### 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: 10633787  
Signed: Sean Felton  
Report Date: 08 Sep 2023



### GRAPHS

