

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131051 - Rear Left Wheel Hub

Sample No: LH0213099

Oil Type: MOBIL MOBILUBE SHC 75W140



SAMPLE INFORMATION

Sample Number	LH0213099	LH0213113	LH0213015	---
Sample Date	30 Aug 2023	24 Jan 2023	03 Dec 2021	---
Machine Hours	9756	7995	1664	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	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	176	157	156	---
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CONTAMINATION

Silicon	ppm	13	20	19	---
Sodium	ppm	3	3	3	---
Potassium	ppm	1	0	<1	---



WEAR METALS

Iron	ppm	134	184	86	---
Copper	ppm	12	104	58	---
Lead	ppm	0	4	<1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	2	1	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	0	4	5	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	4	3	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	11	101	203	---
Magnesium	ppm	0	1	2	---
Zinc	ppm	4	65	70	---
Phosphorus	ppm	519	1506	1675	---
Barium	ppm	0	3	3	---
Boron	ppm	12	57	7	---

Diagnosis

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. High concentration of visible metal present. 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: 10633773
Signed: Jonathan Hester
Report Date: 08 Sep 2023



GRAPHS

