

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131051 - Swing Drive

Sample No: LH0213095

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0213095	LH0213025	LH0213109	---
Sample Date	30 Aug 2023	25 Apr 2023	24 Jan 2023	---
Machine Hours	9756	0	7995	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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	141	140	163	---
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CONTAMINATION

Silicon	ppm	2	<1	6	---
Sodium	ppm	2	<1	6	---
Potassium	ppm	0	2	0	---

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.



WEAR METALS

Iron	ppm	209	99	710	---
Copper	ppm	307	141	818	---
Lead	ppm	2	0	26	---
Tin	ppm	25	14	75	---
Aluminum	ppm	<1	<1	<1	---
Chromium	ppm	<1	0	4	---
Molybdenum	ppm	2	2	<1	---
Nickel	ppm	0	0	1	---
Titanium	ppm	<1	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	2	1	6	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	32	39	77	---
Magnesium	ppm	9	14	28	---
Zinc	ppm	33	26	107	---
Phosphorus	ppm	1096	1051	2172	---
Barium	ppm	0	0	13	---
Boron	ppm	38	21	30	---

Depot: BOIINT
Unique No: 10633794
Signed: Sean Felton
Report Date: 08 Sep 2023



GRAPHS

