

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-131051 - Rear Differential

Sample No: LH0272176

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0272176	LH0213091	LH0213105	---
Sample Date	18 Dec 2023	30 Aug 2023	24 Jan 2023	---
Machine Hours	10742	9756	7995	---
Oil Hours	1000	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	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	131	174	157	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	6	12	17	---
Sodium	ppm	3	3	2	---
Potassium	ppm	0	1	0	---



WEAR METALS

Iron	ppm	108	127	135	---
Copper	ppm	12	15	96	---
Lead	ppm	0	0	4	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	<1	2	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	3	0	4	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	1	2	3	---
Vanadium	ppm	<1	<1	0	---



ADDITIVES

Calcium	ppm	68	9	90	---
Magnesium	ppm	15	0	<1	---
Zinc	ppm	31	2	58	---
Phosphorus	ppm	818	501	1495	---
Barium	ppm	0	0	2	---
Boron	ppm	17	13	56	---

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.

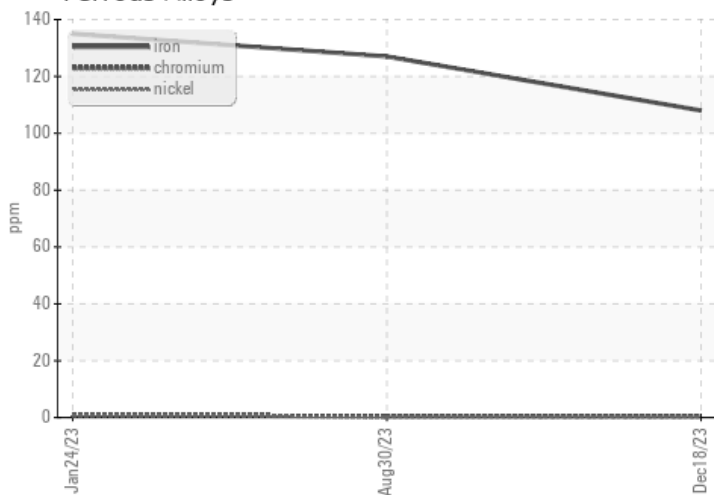
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: BOIINT
Unique No: 10844594
Signed: Wes Davis
Report Date: 23 Jan 2024

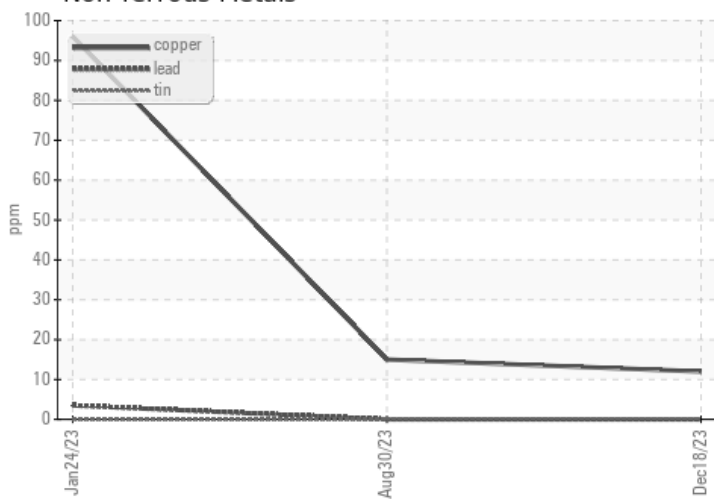


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

