

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L550 054859-1214 - Rear Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH	LH0168460	LH0168486	---
Sample Date	16 Nov 2023	23 Dec 2021	23 Apr 2021	---
Machine Hours	1717	1000	533	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	SEVERE	NORMAL	NORMAL	---

**EMBELLISSEMENTS ROLI-VERT INC.**  
 5219 BOUL. ST-MARTIN OUEST  
 LAVAL, QC  
 CA H7T 2X8  
 Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	192	194	192	---
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	38	25	16	---
Sodium	ppm	9	6	4	---
Potassium	ppm	<1	1	<1	---

#### Diagnosis

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Copper and tin ppm levels are severe. Lead ppm levels are abnormal. Thrust washer and/or bearing/bushing 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.



#### WEAR METALS

Iron	ppm	917	527	193	---
Copper	ppm	250	149	92	---
Lead	ppm	7	5	3	---
Tin	ppm	9	5	2	---
Aluminum	ppm	2	1	<1	---
Chromium	ppm	6	3	1	---
Molybdenum	ppm	38	19	7	---
Nickel	ppm	2	2	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	<1	0	---
Manganese	ppm	86	55	24	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	17	12	13	---
Magnesium	ppm	5	2	2	---
Zinc	ppm	68	41	27	---
Phosphorus	ppm	2357	2372	2255	---
Barium	ppm	<1	0	<1	---
Boron	ppm	3	2	3	---

Depot: EMBLAV  
 Unique No: 5682250  
 Signed: Kevin Marson  
 Report Date: 17 Nov 2023



### GRAPHS

