LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR L550 054859-1214 - Front Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90

SAMPLEINFORMATION						
Sample Number	LH	LH0168459	LH0168485			
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			
A						

	OIL CC	NDITION				
Visc @		cSt	193	O 193	O 193	 l

CON	TAMIN	ATION			
Water	%	NEG	NEG	NEG	
Silicon	ppm	35	O 18	16	
Sodium	ppm	11	6	5	
Potassium	ppm	○ <1	O 1	<1	

Iron ppm 1001 381 232 Copper ppm 215 107 80 Lead ppm 6 4 3 Tin ppm 10 4 2 Aluminum ppm 3 1 <1 Chromium ppm 5 2 1 Molybdenum ppm 52 18 10 Nickel ppm 2 1 <1 Titanium ppm 0 0 0 Silver ppm 56 26 19 Vanadium ppm 0 0	₩E/	AR META	LS			
Lead ppm 6 4 3 Tin ppm 10 4 2 Aluminum ppm 3 1 <1 Chromium ppm 5 2 1 Molybdenum ppm 52 18 10 Nickel ppm 2 1 <1 Titanium ppm 0 0 Silver ppm <1 0 <1 Manganese ppm 56 26 19	Iron	ppm	1001	○ 381	○ 232	
Tin ppm 10 4 2 Aluminum ppm 3 1 <1	Copper	ppm	215	O 107	○ 80	
Aluminum ppm 3 1 <1	Lead	ppm	6	4	3	
Chromium ppm 5 2 1 Molybdenum ppm 52 18 10 Nickel ppm 2 1 <1	Tin	ppm	1 0	O 4	O 2	
Molybdenum ppm 52 18 10 Nickel ppm 2 1 <1	Aluminum	ppm	3	O 1	<1	
Nickel ppm 2 1 <1 Titanium ppm 0 0 Silver ppm <1	Chromium	ppm	5	O 2	O 1	
Titanium ppm 0 0 0 Silver ppm <1 0 <1 Manganese ppm 56 26 19	Molybdenum	ppm	52	18	10	
Silver ppm <1 0 <1 Manganese ppm 56 26 19	Nickel	ppm	2	O 1	O <1	
Manganese ppm 56 26 19	Titanium	ppm	0	0	0	
	Silver	ppm	<1	0	<1	
Vanadium ppm 0 0	Manganese	ppm	56	26	19	
	Vanadium	ppm	0	0	0	

ADDI	TIVES				
Calcium	ppm	13	O 11	O 12	
Magnesium	ppm	4	3	3	
Zinc	ppm	54	30	2 3	
Phosphorus	ppm	2340	2323	2260	
Barium	ppm	1	0	<1	
Boron	ppm	3	3	3	



EMBELLISSEMENTS ROLI-VERT INC.

5219 BOUL. ST-MARTIN OUEST

LAVAL, QC CA H7T 2X8

Contact: Service Manager

T: F:

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.

Depot: EMBLAV
Unique No: 5682252
Signed: Kevin Marson
Report Date: 17 Nov 2023

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GRAPHS

