CONSTRUCTION EQUIPMENT

LIEBHERR L550 054859-1214 - Rear Differential

Sample No: LH

/isc

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	

OILCO	DNDITION				
sc @ 40°C	cSt	0 192	0 194	0 192	

Water	%	NEG	NEG	NEG		
Silicon	ppm	0 38	○ 25	0 16		
Sodium	ppm	0 9	6	0 4		
Potassium	maa	○ <1	01	○ <1		

Ä					
WEA WEA	R METAL	S			
Iron	ppm	917	527	0 193	
Copper	ppm	0 250	0 149	92	
Lead	ppm	07	5	03	
Tin	ppm	9	○ 5	2	
Aluminum	ppm	02	01	◯ <1	
Chromium	ppm	06	03	0 1	
Molybdenum	ppm	0 38	0 19	07	
Nickel	ppm	0 2	0 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	0 17	0 12	0 13		
Magnesium	ppm	5	02	2		
Zinc	ppm	68	0 41	27		
Phosphorus	ppm	0 2357	2372	2255		
Barium	ppm	○ <1	0	○ <1		
Boron	ppm	3	02	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:
 5682250

 Signed:
 Kevin Marson

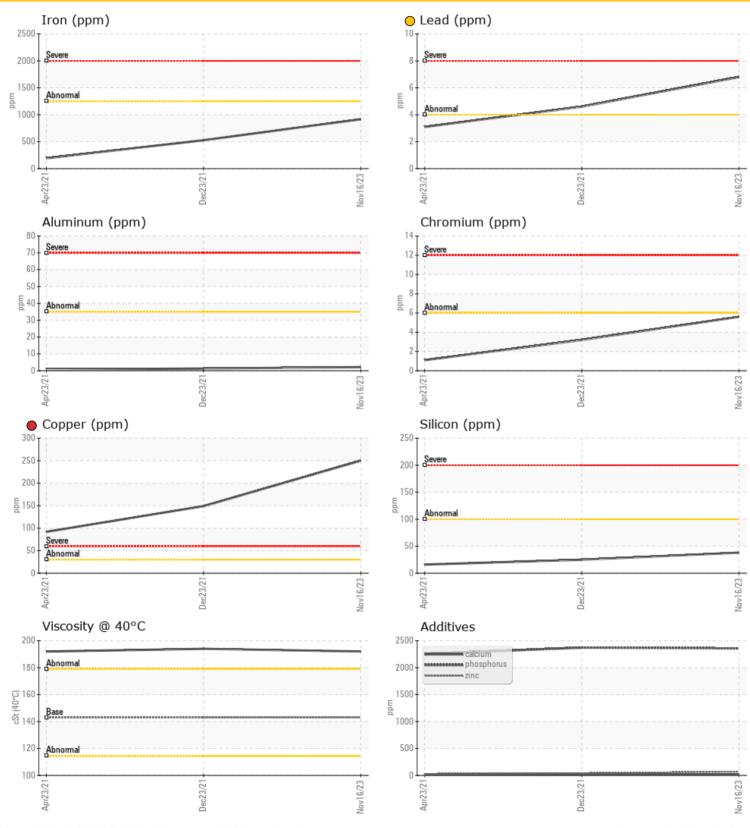
 Report Date:
 17 Nov 2023





GRAPHS

 \odot



Report Id: EMBLAV [WCAMIS] 02597170 (Generated: 11/22/2023 12:28:04) Rev: 1

Submitted By: Olivier Galimi