

LIEBHERR L550 73916 - Front Differential

Sample No: LH0270164

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number		LH0270164	LH0277820					
Sample Date		21 Mar 2024	27 Nov 2023					
Machine Hours		2258	1059					
Oil Hours		0	0					
Oil Changed		Changed	Changed					
Sample Status		ABNORMAL	ABNORMAL					
OIL CONDITION								
Visc @ 40°C	cSt	0 114	0 194					

CONTAMINATION Water % NEG NEG Silicon 0 14 034 ppm 09 Sodium 05 ppm Potassium ppm ○ <1 \bigcirc <1

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WEA	R METAI	LS		
Iron	ppm	0 258	0 370	
Copper	ppm	<u> </u>	0 174	
Lead	ppm	02	5	
Tin	ppm	07	0 10	
Aluminum	ppm	0 2	03	
Chromium	ppm	02	03	
Molybdenum	ppm	0 🔘	0	
Nickel	ppm	03	○ 5	
Titanium	ppm	0	0	
Silver	ppm	0	<1	
Manganese	ppm	0 14	36	
Vanadium	ppm	0	0	

0 **ADDITIVES** Calcium ppm 011 $\bigcirc 6$ Magnesium 03 3 ppm 0 45 Zinc 0 41 ppm 2289 Phosphorus ppm 0 3209 Barium 0 ppm ○ <1 Boron 03 ppm 0 167





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Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.Copper and tin 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.

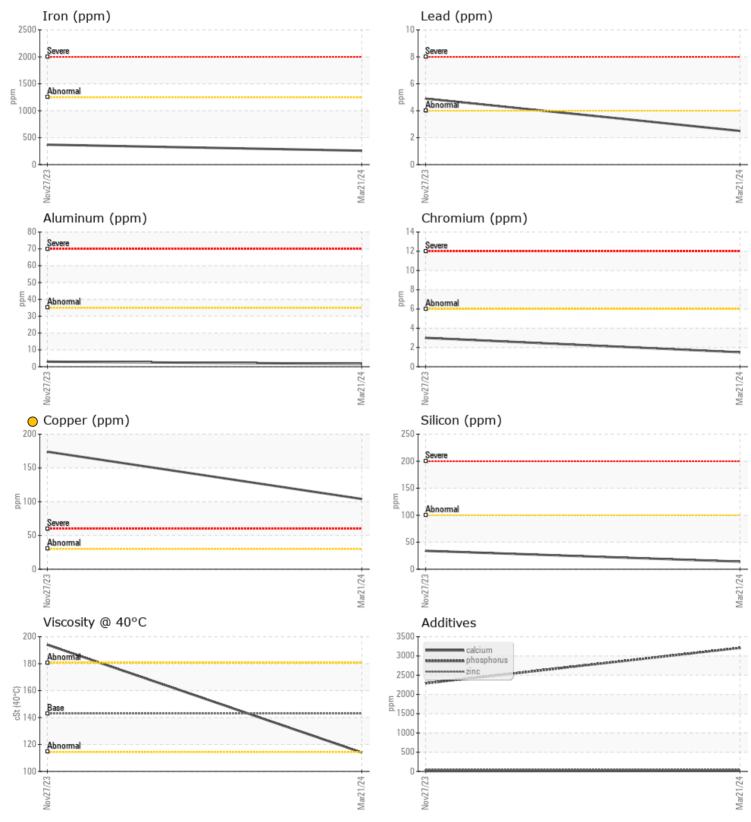
Depot:	LIEMIS		
Unique No:	5749123		
Signed:	Kevin Marson		
Report Date:	22 Mar 2024		





GRAPHS

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Report Id: LIEMIS [WCAMIS] 02624004 (Generated: 03/22/2024 16:56:04) Rev: 1

Contact/Location: Steve Lehto - LIEMIS