

LIEBHERR A944 038569-194 - Swing Drive

Sample No: LH0263921

Oil Type: GEAR OIL LS 80W90

SAMPLE INFORMATION

Sample Number		LH0263921	LHMC142523	LHMC87341				
Sample Date		26 Oct 2023	04 Nov 2019	27 Mar 2015				
Machine Hours		14477	12646	10170				
Oil Hours		500	0	0				
Oil Changed		Changed	Not Changd	Changed				
Sample Status		SEVERE	SEVERE	SEVERE				
OIL CONDITION								
Visc @ 40°C	cSt	0 816	148	118.6				

CONTAMINATION Water % 4.29 5.73 0.118 Silicon $\bigcirc 4$ 0 32 ppm 07 0 15 05 Sodium 0 ppm Potassium ppm 05 0 111 $\bigcirc 0$

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WEA	R META	LS			
Iron	ppm	0 1093	0 1309	2289	
Copper	ppm	0 180	0 1164	0 3033	
Lead	ppm	0 ()	◯ <1	6	
Tin	ppm	0 11	0 31	78	
Aluminum	ppm	0 2	01	0 4	
Chromium	ppm	0 9	07	0 26	
Molybdenum	ppm	07	08	6	
Nickel	ppm	03	○ 3	0 11	
Titanium	ppm	0	<1	<1	
Silver	ppm	0	0	0	
Manganese	ppm	06	07	15	
Vanadium	ppm	<1	0	<1	

ADDITIVES							
Calcium	ppm	513	249	189			
Magnesium	ppm	0 99	○ 5	19			
Zinc	ppm	0 178	0 151	262			
Phosphorus	ppm	0 1273	0 619	1483			
Barium	ppm	0 🔘	○ <1	0			
Boron	ppm	0 36	0 47	8			





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Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

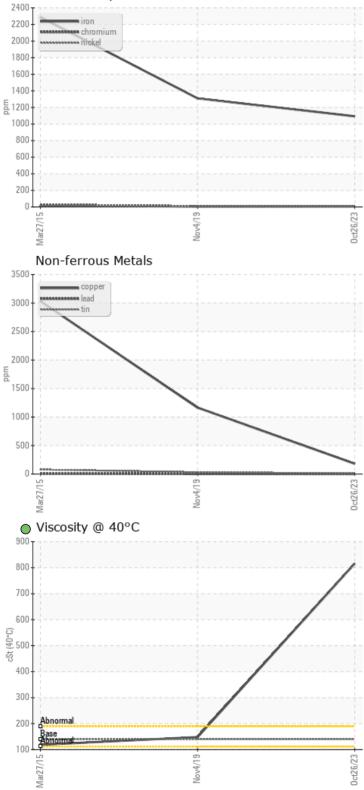
Depot: ALTWAU Unique No: 10833637 Signed: Don Baldridge **Report Date:** 18 Jan 2024





GRAPHS

Ferrous Alloys



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