LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-131051 - Rear Differential

Sample No: LH0213091

Oil Type: GEAR OIL SAE 80W90

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U SAM	DLF INFO	DRMATION		
			111001010	
Sample Number		LH0213091	LH0213105	
Sample Date		30 Aug 2023	24 Jan 2023	
Machine Hours		9756	7995	
Oil Hours		0	0	
Oil Changed		Changed	Changed	
Sample Status		ABNORMAL	ABNORMAL	
OIL	ONDITIO	ON		
Visc @ 40°C	cSt	174	O 157	
-1	001	0	0 107	
CON	TAMINA	ATION		
Silicon	ppm	12	O 17	
Sodium	ppm	3	O 2	
Potassium	ppm	0 1	O 0	
-				
◎ WEA	R META	16		
	IR ME I A			
Iron	ppm	127	O 135	
Copper	ppm	15	9 6	
Lead	ppm	0	O 4	
Tin	ppm	0	0	
Aluminum	ppm	2	1	
Chromium	ppm	○ <1	O <1	
Molybdenum	ppm	0	4	
Nickel	ppm	○ <1	O <1	
Titanium	ppm	<1	<1	
Silver	ppm	0	0	
Manganese	ppm	2	3	
Vanadium	ppm	<1	0	
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ADD	ITIVES			
Calcium	ppm	9	9 0	
Magnesium	ppm	0 0	O <1	
Zinc	ppm	2	58	
Phosphorus	ppm	501	O 1495	
Barium	ppm	0 0	0 2	

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BOISE WHITE PAPER

3RD AVE AND HWY 11, 400 2ND ST INTERNATIONAL FALLS, MN US 56649

Contact: GARY MANN

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Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor. High concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:BOIINTUnique No:10633795Signed:Jonathan HesterReport Date:08 Sep 2023

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ppm

Boron

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GRAPHS

