CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-130389 - Rear Differential

Sample No: LH0217915

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0217915	LH0217903	LH0217891	LH0200600
Sample Date	19 Mar 2024	14 Jun 2023	18 Aug 2022	10 Feb 2022
Machine Hours	3007	1990	997	488
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL
Visc @ 40°C cSt	123	0 142	0 154	0 157
**				

	NTAMIN/	ATION				
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	01	0 2	0 4	0 12	
Sodium	ppm	2	0 4	01	0 2	
Potassium	ppm	0	03	◯ <1	01	

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WEA	R METALS				
Iron	ppm	0 27	53	21	33
Copper	ppm	0 11	8	0 11	0 15
Lead	ppm	0	0	○ <1	○ <1
Tin	ppm	0	0	0	○ <1
Aluminum	ppm	0	2	○ <1	01
Chromium	ppm	0	0	0	○ <1
Molybdenum	ppm	0	0	2	6
Nickel	ppm	0	0	○ <1	○ <1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	○ <1	01	○ <1	2
Vanadium	ppm	0	0	0	0

0 **ADDITIVES** Calcium 0 31 ppm 20 070 257 07 02 Magnesium 3 2 ppm 0 22 0 24 Zinc 64 0 12 ppm 0 583 0 949 Phosphorus ppm 0744 0 1836 Barium 0 ppm $\bigcirc 5$ 0 0 Boron ppm 0 ○ <1 06 $\bigcirc 7$





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Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

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:	LEC0008
Unique No:	10949549
Signed:	Wes Davis
Report Date:	27 Mar 2024





GRAPHS

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