CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1216-115016 - Front Differential

Sample No: LH0272122

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0272122	LH0156671	LH0156615	LH0156713
Sample Date	19 Dec 2023	30 Aug 2023	25 Apr 2023	25 Jan 2023
Machine Hours	17781	16752	15594	14552
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE
Visc @ 40°C cSt	0 135	136	0 137	186

Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	◯ <1	○ <1	01	0 12	
Sodium	ppm	0 2	2	01	3	
Potassium	ppm	0	0	◯ <1	◯ <1	

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WEAL	R METALS				
Iron	ppm	0 19	63	○ 71	798
Copper	ppm	01	○ 3	02	◯ 39
Lead	ppm	0 ()	0	0	0
Tin	ppm	<mark></mark> <1	0	0	0
Aluminum	ppm	0	◯ <1	◯ <1	06
Chromium	ppm	0 ()	○ <1	0	8
Molybdenum	ppm	02	02	2	01
Nickel	ppm	0 ()	○ <1	0	0 10
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	○ <1	○ <1	01	0 10
Vanadium	ppm	0	<1	0	<1

¢ **ADDITIVES** Calcium ppm 0 36 0 40 0 42 09 Magnesium 08 09 0 15 ○ <1 ppm Zinc 0 13 0 21 0 30 013 ppm 0 854 Phosphorus ppm 913 0 796 0 1155 Barium 0 $\bigcirc 0$ 0 352 ppm 1 Boron ppm 09 03 $\bigcirc 7$ $\bigcirc 2$





PCA

400 2ND STREET INTERNATIONAL FALLS, MN US 56649 Contact: SCOTT LINDVALL scottlindvall@boisepaper.com T: (218)285-5706 F:

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:	PCAI
Unique No:	10844
Signed:	Wes I
Report Date:	23 Ja







GRAPHS

