CONSTRUCTION EQUIPMENT

LIEBHERR LH30 101514-1253 - Rear Right Wheel Hub

Sample No: LH0285587

Oil Type: SUPER S 80W90 LS

Sample Information

Sample Number		LH0285587	LH0272803	LH0235745	LH0217625
Sample Date		28 Jun 2024	10 Jan 2024	25 Sep 2023	22 Mar 2023
Machine Hours		12588	12010	11543	10552
Oil Hours		1000	0	0	2000
Oil Changed		Changed	Changed	Changed	Changed
Sample Status		NORMAL	NORMAL	NORMAL	ATTENTION
Oil Condition					
Visc @ 40°C	cSt	0 121	130	104	74.0

-					
Con	ntaminati	on			
Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	07	03	03	25
Sodium	ppm	○ <1	2	◯ <1	2
Potassium	ppm	○ <1	0 2	0 1	02

	la la	0	0 -	0	0-
Wear Metals					
Iron	ppm	0 18	0 147	0 106	5 9
Copper	ppm	0 ()	○ <1	2	○ <1
Lead	ppm	0 🔘	0	0	0
Tin	ppm	0	0	0	0
Aluminum	ppm	02	2	○ <1	6
Chromium	ppm	0 ()	○ <1	○ <1	○ <1
Molybdenum	ppm	0	○ <1	01	1
Nickel	ppm	0 ()	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	○ <1	01	1
Vanadium	ppm	0	0	<1	0

0 **Additives** Calcium ppm 34 67 071 32 Magnesium 3 $\bigcirc 7$ 8 ppm 7 Zinc 0 33 6 17 ppm <1 Phosphorus 279 0 437 ◯ 304 294 ppm Barium 0 03 0 ppm Boron 0 $\bigcirc 0$ ppm 2

SPARTAN RECYCLING

3071 HOWARD ST SPARTANBURG, SC US 29303 Contact: SERVICE MANAGER

T: F:

Diagnosis

Resample at the next service interval to monitor.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:	SPASPALH
Unique No:	11111439
Signed:	Wes Davis
Report Date:	05 Jul 2024









Graphs

Ferrous Alloys 160. 140 chromiu nickel 120 100 Md 80 60 40 20 0. Jul8/20 Jul14/22 Sep25/23 Jan 10/24 Jun28/24 Mar22/23 Non-ferrous Metals 10 copper 9 lead tin 8 6 ppm 5 3 2 0. Jul8/20 Jul14/22 Sep25/23 Mar22/23 Jan 10/24 Jun28/24 Viscosity @ 40°C 220-Abnormal 200-180 160 (10°C) 140 25 Abnormal 120 100 80. 60. Jun28/24 -Jul8/20 Jul14/22. Mar22/23 Sep25/23 Jan 10/24

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