

LIEBHERR LH30 101514-1253 - Front Right Wheel Hub

Sample No: LH0272804

Oil Type: GEAR OIL SAE 80W90

SAMPLE INFORMATION

Sample Number	LH0272804	LH0235746	LH0217623	LH0166349		
Sample Date	10 Jan 2024	25 Sep 2023	22 Mar 2023	14 Jul 2022		
Machine Hours	12010	11543	10552	7420		
Oil Hours	0	0	2000	0		
Oil Changed	Changed	Changed	Changed	N/A		
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ABNORMAL		
OIL CONDITION						
Visc @ 40°C cSt	131	108	0 107	94.8		

CONTAMINATION						
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	0 5	08	07	0 12	
Sodium	ppm	01	03	2	0 4	
Potassium	ppm	() <1	0 2	0 2	03	

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Iron	ppm	0 467	○ 581	204	724
Copper	ppm	07	0 11	2	8
Lead	ppm	0 🔘	0	0	◯ <1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	◯ <1	2
Chromium	ppm	01	0 2	◯ <1	2
Molybdenum	ppm	○ <1	01	2	<1
Nickel	ppm	0 🔘	0	0	◯ <1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	3	0 4	2	5
Vanadium	ppm	0	<1	0	<1

0 **ADDITIVES** Calcium ppm 0 59 94 120 26 Magnesium 05 0 10 15 4 ppm 0 67 Zinc 04 76 20 ppm 288 290 266 Phosphorus ppm 0 342 Barium 03 0 ppm Boron 0 ppm $\bigcirc 0$



SPARTAN RECYCLING 3071 HOWARD ST SPARTANBURG, SC

SPARTANBURG, SC US 29303 Contact: SERVICE MANAGER

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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. We recommend an early resample to monitor this condition.High concentration of visible metal present. Gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot:SPASPALHUnique No:10834562Signed:Don BaldridgeReport Date:19 Jan 2024





GRAPHS

