

LIEBHERR L526 058450-1558 - Front Differential

Sample No: LH0289591

Oil Type: LIEBHERR GEAR BASIC 90 LS

Sample Information

Sample Number	LH0289591	LH0247504	LH0247231	LH0230919	
Sample Date	15 Apr 2024	14 Mar 2023	06 Dec 2022	26 May 2022	
Machine Hours	3938	3048	2702	1792	
Oil Hours	0	0	0	0	
Oil Changed	Changed	Changed	Changed	Changed	
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL	
Oil Condition					
Visc @ 40°C cSt	O 151	0 102	94.5	99.4	
11					

Col	ntaminati	ion				
Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	02	0 2	5	○ 5	
Sodium	ppm	0 2	◯ <1	0 4	02	
Potassium	ppm	○ <1	○ <1	0 2	○ <1	

Wea	r Metals				
Iron	ppm	0 36	23	83	99
Copper	ppm	0 (○ <1	◯ <1	◯ <1
Lead	ppm	0 🔘	0	0	0
Tin	ppm	0 🔘	0	0	0
Aluminum	ppm	○ <1	◯ <1	◯ <1	◯ <1
Chromium	ppm	0 (0	◯ <1	◯ <1
Molybdenum	ppm	21	6	59	0 14
Nickel	ppm	0 (0 ()	0	○ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	○ <1	◯ <1	0 1	01
Vanadium	ppm	0	0	0	0

0 **Additives** Calcium ppm 07 0 10 38 047 Magnesium 02 02 02 02 ppm 011 28 0 37 Zinc 07 ppm Phosphorus 0 2403 0 1465 2855 2565 ppm Barium 0 () 0 ○ <1 ppm ○ <1 Boron 0 337 244 0217 ppm 96





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Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

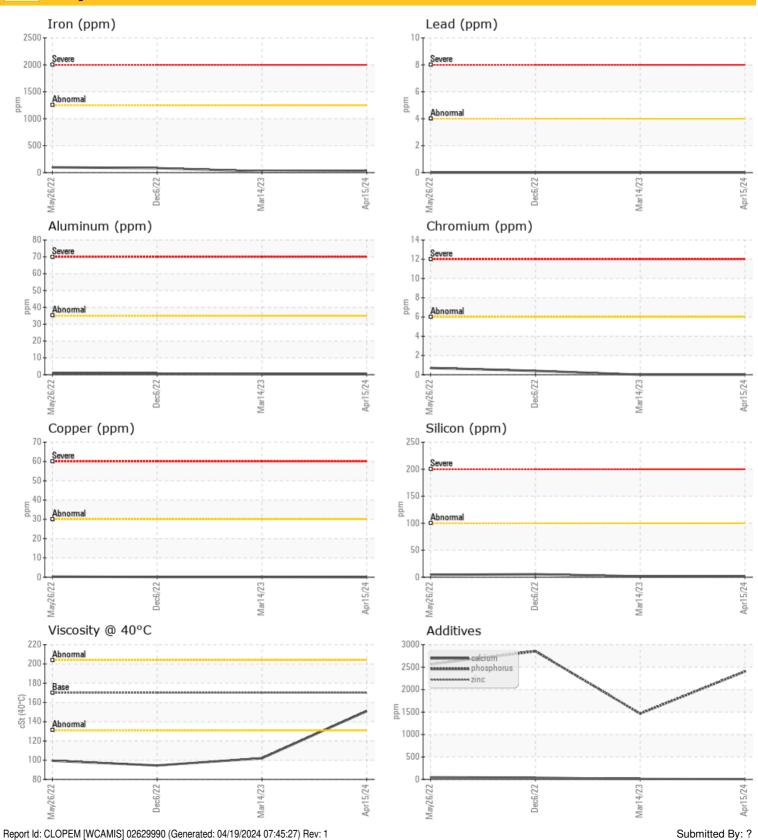
Depot:	CLOPEM
Unique No:	5763122
Signed:	Wes Davis
Report Date:	18 Apr 2024
	Submitted By: ?





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Graphs



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