

113718-1216 - Front Differential

Sample No: LH0279266

Oil Type: LIEBHERR GEAR BASIC 90 LS

SAMPLE INFORMATION

Sample Number		LH0279266	LH0234884	LH0203489	LH	
Sample Date		16 Jan 2024	22 Jul 2022	18 Aug 2021	06 Apr 2021	
Machine Hours		5998	4000	0	0	
Oil Hours		0	0	0	0	
Oil Changed		Changed	Changed	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL	
Visc @ 40°C	cSt	99.5	192	172	95.8	
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Water	%	NEG	NEG	NEG	NEG	
Silicon	ppm	3	○ <1	◯ <1	3	
Sodium	ppm	○ <1	2	6	0 1	
Potassium	ppm	○ <1	0 10	05	0	

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WEA	R METALS				
Iron	ppm	3	04	01	3
Copper	ppm	14	○ 5	04	0 18
Lead	ppm	○ <1	0	○ <1	○ <1
Tin	ppm	0 ()	0	0	0
Aluminum	ppm	○ <1	○ <1	0	○ <1
Chromium	ppm	0 ()	0	0	0
Molybdenum	ppm	0 ()	0	0	○ <1
Nickel	ppm	<mark></mark> <1	0	○ <1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0 ()	0	○ <1	○ <1
Manganese	ppm	0 ()	○ <1	○ <1	○ <1
Vanadium	ppm	0	0	0	0

0

ADDITIVES					
Calcium	ppm	16	2	0 13	8
Magnesium	ppm	○ <1	○ <1	◯ <1	01
Zinc	ppm	0 13	6	5	18
Phosphorus	ppm	0 2392	2301	2393	2601
Barium	ppm	0	0	◯ <1	◯ <1
Boron	ppm	263	1	5	291





American Iron and Metal

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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:	BAKOTT
Unique No:	5710849
Signed:	Wes Davis
Report Date:	18 Jan 2024

Report Id: BAKOTT [WCAMIS] 02609763 (Generated: 01/19/2024 07:51:26) Rev: 1

Submitted By: ?





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