

LIEBHERR

CONSTRUCTION EQUIPMENT



[(365672)] LIEBHERR LH50M 135585-1216 - Front Right Wheel

Sample No: LH0223053

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0223053	LH0223041	LH0223029	LH0223017
Sample Date	25 Oct 2022	25 Aug 2022	27 Jun 2022	03 May 2022
Machine Hours	4976	3930	2996	2003
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

Weyerhaeuser

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Oil Condition

Visc @ 40°C	cSt	186	174	165	163



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	19	17	13	50
Sodium	ppm	8	14	13	9
Potassium	ppm	<1	2	3	2



Wear Metals

Iron	ppm	294	336	167	199
Copper	ppm	99	100	86	77
Lead	ppm	3	3	3	3
Tin	ppm	0	0	0	0
Aluminum	ppm	5	6	4	6
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	1
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	1
Manganese	ppm	7	8	6	6
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	26	55	83	174
Magnesium	ppm	1	2	2	2
Zinc	ppm	97	131	53	93
Phosphorus	ppm	2402	2227	2173	2135
Barium	ppm	0	0	0	0
Boron	ppm	4	5	6	5

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: WEY100KEN
Unique No: 5477276
Signed: Kevin Marson
Report Date: 02 Nov 2022



Graphs

