

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0223052

Oil Type: LIEBHERR GEAR BASIC 90 LS



Sample Information

Sample Number	LH0223052	LH0223040	LH0223028	LH0223016
Sample Date	25 Oct 2022	25 Aug 2022	27 Jun 2022	05 May 2022
Machine Hours	4976	3930	2996	2003
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

Weyerhaeuser

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Oil Condition

Visc @ 40°C	cSt	186	172	171	157



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	17	17	8	27
Sodium	ppm	9	15	15	6
Potassium	ppm	1	3	3	2



Wear Metals

Iron	ppm	257	308	135	102
Copper	ppm	142	127	69	30
Lead	ppm	4	6	2	1
Tin	ppm	0	0	0	0
Aluminum	ppm	6	7	3	3
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	<1	<1	<1	1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	8	9	5	3
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	25	53	88	146
Magnesium	ppm	1	1	2	1
Zinc	ppm	122	149	51	55
Phosphorus	ppm	2391	2140	2155	2077
Barium	ppm	0	0	0	0
Boron	ppm	4	7	3	4

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. Lead ppm levels are marginal. 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: 5477279
Signed: Kevin Marson
Report Date: 02 Nov 2022



Graphs

