

# LIEBHERR

## CONSTRUCTION EQUIPMENT



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

Sample No: LH0223054

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0223054	LH0223042	LH0223030	LH0223018
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	Not Changd	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

#### Weyerhaeuser

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#### Oil Condition

Visc @ 40°C	cSt	152	151	147	134



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	14	11	27
Sodium	ppm	1	2	2	2
Potassium	ppm	<1	1	1	1



#### Wear Metals

Iron	ppm	63	106	65	93
Copper	ppm	26	54	41	50
Lead	ppm	<1	4	1	2
Tin	ppm	0	0	0	0
Aluminum	ppm	1	2	2	3
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	<1	<1	2
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	3	2	3
Vanadium	ppm	0	0	0	0



#### Additives

Calcium	ppm	18	75	80	210
Magnesium	ppm	<1	1	1	2
Zinc	ppm	37	57	44	90
Phosphorus	ppm	2152	2036	2096	1698
Barium	ppm	0	<1	<1	4
Boron	ppm	109	67	103	8

#### 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: WEY100KEN  
Unique No: 5477277  
Signed: Kevin Marson  
Report Date: 02 Nov 2022



### Graphs

