

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058671-1334 - Rear Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH	LH0278558	LH0150835	LH0199515
Sample Date	08 Mar 2024	01 Nov 2023	16 Dec 2022	07 Jul 2022
Machine Hours	7837	7174	5000	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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#### OIL CONDITION

Visc @ 40°C	cSt	181	172	166	103



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	4	4	4	4
Sodium	ppm	<1	2	2	3
Potassium	ppm	<1	0	0	<1

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	66	110	56	84
Copper	ppm	65	59	32	59
Lead	ppm	2	1	<1	2
Tin	ppm	3	5	2	4
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	4
Manganese	ppm	<1	2	2	5
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	8	19	23	87
Magnesium	ppm	<1	1	<1	2
Zinc	ppm	34	104	42	62
Phosphorus	ppm	2402	2355	2477	2405
Barium	ppm	0	<1	0	0
Boron	ppm	5	24	65	198

Depot: BIRWIN

Unique No: 5746687

Signed: Wes Davis

Report Date: 12 Mar 2024



### GRAPHS

