

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 058671-1334 - Rear Differential

Sample No: LH0278558

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH0278558	LH0150835	LH0199515	LH
Sample Date	01 Nov 2023	16 Dec 2022	07 Jul 2022	08 Jan 2022
Machine Hours	7174	5000	0	3000
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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#### OIL CONDITION

Visc @ 40°C	cSt	172	166	103	173
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#### CONTAMINATION

Silicon	ppm	4	4	4	7
Sodium	ppm	2	2	3	6
Potassium	ppm	0	0	<1	1



#### WEAR METALS

Iron	ppm	110	56	84	122
Copper	ppm	59	32	59	79
Lead	ppm	1	<1	2	2
Tin	ppm	5	2	4	4
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	4	0
Manganese	ppm	2	2	5	12
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	19	23	87	256
Magnesium	ppm	1	<1	2	2
Zinc	ppm	104	42	62	135
Phosphorus	ppm	2355	2477	2405	2354
Barium	ppm	<1	0	0	0
Boron	ppm	24	65	198	10

#### 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.

Depot: BIRWIN

Unique No: 5671424

Signed: Wes Davis

Report Date: 06 Nov 2023



### GRAPHS

