

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 055862-1334 - Front Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



#### SAMPLE INFORMATION

Sample Number	LH	LH0234465	LH0213669	LH0199597
Sample Date	07 Aug 2023	27 Feb 2023	25 Apr 2022	13 Sep 2021
Machine Hours	8000	6974	5000	3983
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**Bird's Hill Gravel and Stone Ltd.**

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#### OIL CONDITION

Visc @ 40°C	cSt	174	180	191	189
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#### CONTAMINATION

Silicon	ppm	4	9	8	4
Sodium	ppm	2	1	2	2
Potassium	ppm	<1	<1	0	<1



#### WEAR METALS

Iron	ppm	134	145	203	166
Copper	ppm	63	94	141	98
Lead	ppm	2	2	5	3
Tin	ppm	5	5	6	4
Aluminum	ppm	<1	2	<1	<1
Chromium	ppm	<1	1	2	1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	2	4	3
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	10	23	10	7
Magnesium	ppm	3	9	2	2
Zinc	ppm	39	15	29	39
Phosphorus	ppm	2306	2480	2466	2411
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	<1	2

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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: 5619660

Signed: Wes Davis

Report Date: 08 Aug 2023



### GRAPHS

