

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 055862-1334 - Rear Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH	LH0213672	LH0199596
Sample Date	07 Aug 2023	23 Apr 2022	23 Apr 2022	13 Sep 2021
Machine Hours	8000	7000	5000	3983
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	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	173	179	189	189
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CONTAMINATION

Silicon	ppm	2	2	5	2
Sodium	ppm	1	<1	3	2
Potassium	ppm	<1	0	<1	<1



WEAR METALS

Iron	ppm	35	46	155	98
Copper	ppm	32	40	95	61
Lead	ppm	<1	1	3	2
Tin	ppm	2	2	4	2
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	2	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	4	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	34	13	8	6
Magnesium	ppm	2	2	1	1
Zinc	ppm	29	13	38	43
Phosphorus	ppm	2280	2460	2462	2376
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	<1	1

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: 5619662

Signed: Wes Davis

Report Date: 08 Aug 2023



GRAPHS

