

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 058671-1334 - Front Differential

Sample No: LH0278559

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278559	LH0150834	LH0199516	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	ABNORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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Contact: Joel Malkoske

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OIL CONDITION

Visc @ 40°C	cSt	176	178	102	179
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CONTAMINATION

Silicon	ppm	7	8	10	10
Sodium	ppm	2	1	3	6
Potassium	ppm	0	<1	<1	1



WEAR METALS

Iron	ppm	275	112	178	242
Copper	ppm	145	51	82	109
Lead	ppm	3	2	3	3
Tin	ppm	10	3	4	6
Aluminum	ppm	2	1	2	1
Chromium	ppm	1	<1	1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	3	2	5	12
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	23	18	67	171
Magnesium	ppm	3	3	5	2
Zinc	ppm	108	56	71	131
Phosphorus	ppm	2325	2464	2641	2354
Barium	ppm	<1	0	0	0
Boron	ppm	31	54	167	5

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: 5671423

Signed: Wes Davis

Report Date: 06 Nov 2023



GRAPHS

