

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 054472-1334 - Rear Differential

Sample No: LH0278561

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278561	LH	LH0242799	LH0234477
Sample Date	20 Nov 2023	22 Jun 2023	14 Dec 2022	08 Aug 2022
Machine Hours	8016	7000	6005	4995
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

Bird's Hill Gravel and Stone Ltd.

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OIL CONDITION

Visc @ 40°C	cSt	184	180	162	95.1
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CONTAMINATION

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

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	31	37	56	79
Copper	ppm	14	35	27	70
Lead	ppm	<1	<1	<1	2
Tin	ppm	<1	2	1	3
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	8	17	12	12
Magnesium	ppm	2	3	1	2
Zinc	ppm	10	14	12	18
Phosphorus	ppm	2320	2365	2496	2511
Barium	ppm	<1	0	0	0
Boron	ppm	2	8	55	234

Depot: BIRWIN

Unique No: 5683622

Signed: Wes Davis

Report Date: 23 Nov 2023



GRAPHS

