

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 054472-1334 - Rear Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH0242799	LH0234477	LH0173108
Sample Date	22 Jun 2023	14 Dec 2022	08 Aug 2022	15 Dec 2021
Machine Hours	7000	6005	4995	0
Oil Hours	0	0	0	2000
Oil Changed	N/A	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

1 Terracon Place

Winnipeg, MB

CA R2J 4B3

Contact: Joel Malkoske

Jmalkoske@glacialagg.ca

T: (204)663-0064

F:



OIL CONDITION

Visc @ 40°C	cSt	180	162	95.1	186
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CONTAMINATION

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



WEAR METALS

Iron	ppm	37	56	79	119
Copper	ppm	35	27	70	103
Lead	ppm	<1	<1	2	3
Tin	ppm	2	1	3	4
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	3	5
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	17	12	12	8
Magnesium	ppm	3	1	2	<1
Zinc	ppm	14	12	18	29
Phosphorus	ppm	2365	2496	2511	2404
Barium	ppm	0	0	0	0
Boron	ppm	8	55	234	<1

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: 5605357

Signed: Wes Davis

Report Date: 06 Jul 2023



GRAPHS

