

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 054472-1334 - Front Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH0242800	LH0234478	LH0173114
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	NORMAL	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	163	101	191
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CONTAMINATION

Silicon	ppm	4	3	4	7
Sodium	ppm	1	<1	1	2
Potassium	ppm	1	0	0	<1



WEAR METALS

Iron	ppm	83	68	116	205
Copper	ppm	57	30	99	173
Lead	ppm	1	1	3	5
Tin	ppm	3	1	3	6
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	<1	<1	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	1	2	5
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	18	8	14	13
Magnesium	ppm	3	1	2	<1
Zinc	ppm	17	11	20	42
Phosphorus	ppm	2339	2466	2366	2400
Barium	ppm	0	0	0	0
Boron	ppm	9	54	195	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: 5605356

Signed: Wes Davis

Report Date: 06 Jul 2023



GRAPHS

