

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 054472-1334 - Front Differential

Sample No: LH0278560

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0278560	LH	LH0242800	LH0234478
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	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	182	180	163	101
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	4	3	4
Sodium	ppm	2	1	<1	1
Potassium	ppm	<1	1	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	144	83	68	116
Copper	ppm	30	57	30	99
Lead	ppm	<1	1	1	3
Tin	ppm	1	3	1	3
Aluminum	ppm	1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	18	8	14
Magnesium	ppm	5	3	1	2
Zinc	ppm	12	17	11	20
Phosphorus	ppm	2326	2339	2466	2366
Barium	ppm	0	0	0	0
Boron	ppm	3	9	54	195

Depot: BIRWIN

Unique No: 5683623

Signed: Wes Davis

Report Date: 23 Nov 2023



GRAPHS

