

LIEBHERR

CONSTRUCTION EQUIPMENT



[[20230524]] LIEBHERR L586 059873-1334 - Front Differential

Sample No: LH0224798

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0224798	LH0250085	LH0242698	LH0234472
Sample Date	30 Oct 2023	05 Jun 2023	05 Nov 2022	08 Aug 2022
Machine Hours	7081	0	4989	4065
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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OIL CONDITION

Visc @ 40°C	cSt	177	186	179	186
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CONTAMINATION

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



WEAR METALS

Iron	ppm	35	54	32	43
Copper	ppm	11	46	18	43
Lead	ppm	<1	1	<1	1
Tin	ppm	<1	3	<1	2
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	1	3	2	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	19	10	12	14
Magnesium	ppm	<1	1	1	<1
Zinc	ppm	20	18	21	32
Phosphorus	ppm	2413	2369	2384	2260
Barium	ppm	<1	0	0	0
Boron	ppm	<1	2	1	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: 5670406

Signed: Wes Davis

Report Date: 01 Nov 2023



GRAPHS

