

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L586 059873-1334 - Front Differential

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



Sample Information

Sample Number	LH	LH0224798	LH0250085	LH0242698
Sample Date	09 Apr 2024	30 Oct 2023	05 Jun 2023	05 Nov 2022
Machine Hours	0	7081	0	4989
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Bird's Hill Gravel and Stone Ltd.

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Contact: Joel Malkoske

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Oil Condition

Visc @ 40°C	cSt	184	177	186	179



Contamination

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



Wear Metals

Iron	ppm	71	35	54	32
Copper	ppm	29	11	46	18
Lead	ppm	0	<1	1	<1
Tin	ppm	2	<1	3	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	3	1	3	2
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	10	19	10	12
Magnesium	ppm	2	<1	1	1
Zinc	ppm	17	20	18	21
Phosphorus	ppm	2286	2413	2369	2384
Barium	ppm	0	<1	0	0
Boron	ppm	1	<1	2	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: 5762121

Signed: Kevin Marson

Report Date: 16 Apr 2024

Submitted By: Vincent Blanchette



Graphs

