

LIEBHERR

CONSTRUCTION EQUIPMENT



[(347076)] LIEBHERR L586 062518-1761 - Front Left Wheel H

Sample No: LH0269539

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH0269539	LH0234509	LH0238545	LH0224193
Sample Date	28 Aug 2023	17 Jan 2023	20 Aug 2022	30 Mar 2022
Machine Hours	7038	5327	4090	2924
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	NORMAL

MODERN CONSTRUCTION (1983) LTD.
 364 BRIGGS CROSS ROAD
 STILESVILLE, NB
 CA E1G 3G3
 Contact: Blaine Cail
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 T:
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OIL CONDITION

Visc @ 40°C	cSt	175	174	174	189
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CONTAMINATION

Silicon	ppm	37	23	19	11
Sodium	ppm	4	3	3	3
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	729	419	319	283
Copper	ppm	374	258	172	334
Lead	ppm	10	6	5	9
Tin	ppm	23	13	8	10
Aluminum	ppm	11	7	7	1
Chromium	ppm	5	3	2	2
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	<1	0	0
Manganese	ppm	10	8	10	18
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	21	23	20	14
Magnesium	ppm	5	3	3	<1
Zinc	ppm	109	83	79	55
Phosphorus	ppm	2284	2497	2299	2502
Barium	ppm	<1	0	0	0
Boron	ppm	<1	1	<1	<1

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Copper ppm levels are severe. Lead and tin ppm levels are abnormal. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: MODSTI
 Unique No: 5632821
 Signed: Kevin Marson
 Report Date: 01 Sep 2023



GRAPHS

