

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH60M 107906 - Front Differential

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



LIEBHERR CANADA

10 LYNDS AVENUE

MONCTON, NB

CA E1H 3K2

Contact: Bryan Wood

bryan.wood@liebherr.com

T:

F: (506)854-2940



Sample Information

Sample Number	LH	LH	LH0250179	LH0250202
Sample Date	17 Jun 2024	12 Apr 2023	09 Jan 2023	09 Jan 2023
Machine Hours	3725	3721	3715	3715
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	185	185	185	186
-------------	-----	-----	-----	-----	-----



Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	2	2	2
Sodium	ppm	3	4	4	3
Potassium	ppm	<1	0	<1	<1



Wear Metals

Iron	ppm	4	10	10	8
Copper	ppm	3	6	6	5
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	14	14	15	13
Magnesium	ppm	<1	1	<1	<1
Zinc	ppm	5	7	7	6
Phosphorus	ppm	1233	1352	1300	1311
Barium	ppm	313	333	326	324
Boron	ppm	2	2	<1	1

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.

Depot: LIEMON

Unique No: 5800546

Signed: Wes Davis

Report Date: 19 Jun 2024



Graphs

