

LIEBHERR

CONSTRUCTION EQUIPMENT



[(361220)] LIEBHERR LH50M 134706-1216 - Splitter Box

Sample No: LH

Oil Type: LIEBHERR GEAR BASIC 90 LS



SAMPLE INFORMATION

Sample Number	LH	LH0234444	LH0250101	LH0242763
Sample Date	12 Sep 2023	15 Jun 2023	27 Mar 2023	21 Jan 2023
Machine Hours	4000	3528	2610	2610
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	176	177	174	147
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T:
F:



CONTAMINATION

Silicon	ppm	4	5	8	5
Sodium	ppm	2	2	3	2
Potassium	ppm	<1	<1	<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.



WEAR METALS

Iron	ppm	20	14	28	18
Copper	ppm	2	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	1	<1	2	1
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	16	16	23	36
Magnesium	ppm	2	2	11	4
Zinc	ppm	22	10	21	28
Phosphorus	ppm	2344	2345	2357	2193
Barium	ppm	0	0	0	0
Boron	ppm	7	13	27	73

Depot: IND550WIN
Unique No: 5644334
Signed: Wes Davis
Report Date: 18 Sep 2023



GRAPHS

