

LIEBHERR

CONSTRUCTION EQUIPMENT



[(361220)] LIEBHERR LH50M 134706-1216 - Swing Drive

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH	LH0250099	LH0242831
Sample Date	15 Feb 2024	12 Sep 2023	27 Mar 2023	31 Oct 2022
Machine Hours	5100	4000	2020	2020
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	N/A	N/A
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	184	171	170
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T:
F:



CONTAMINATION

Water	%	NEG	0.029	NEG	NEG
Silicon	ppm	<1	1	<1	2
Sodium	ppm	<1	3	1	2
Potassium	ppm	<1	3	<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.



WEAR METALS

Iron	ppm	28	58	34	120
Copper	ppm	13	12	24	29
Lead	ppm	<1	<1	2	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	8	15	9	28
Magnesium	ppm	1	<1	<1	<1
Zinc	ppm	9	11	5	14
Phosphorus	ppm	2242	2428	2400	2440
Barium	ppm	0	<1	<1	4
Boron	ppm	12	7	29	22

Depot: IND550WIN
Unique No: 5733879
Signed: Wes Davis
Report Date: 20 Feb 2024



GRAPHS

