

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH	LH0250099	LH0242831	LH0213740
Sample Date	12 Sep 2023	27 Mar 2023	31 Oct 2022	23 Apr 2022
Machine Hours	4000	2020	2020	1000
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	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	184	171	170	173
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T:
F:



CONTAMINATION

Water	%	0.029	---	---	---
Silicon	ppm	1	<1	2	3
Sodium	ppm	3	1	2	5
Potassium	ppm	3	<1	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. 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	58	34	120	415
Copper	ppm	12	24	29	62
Lead	ppm	<1	2	1	2
Tin	ppm	<1	<1	<1	3
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	<1	0	<1	2
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	4
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	15	9	28	72
Magnesium	ppm	<1	<1	<1	2
Zinc	ppm	11	5	14	20
Phosphorus	ppm	2428	2400	2440	2266
Barium	ppm	<1	<1	4	9
Boron	ppm	7	29	22	21

Depot: IND550WIN
Unique No: 5644329
Signed: Wes Davis
Report Date: 19 Sep 2023



GRAPHS

