

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 121164-1216 - Front Differential

Sample No: LH0274284

Oil Type: LIEBHERR GEAR BASIC 90 LS



ACIER CENTURY INC
600 BERGE DU CANAL
LACHINE, QC
CA H8R 1H4
Contact: SERVICE



SAMPLE INFORMATION

Sample Number	LH0274284	LH0235222	LH	LH0177784
Sample Date	02 Oct 2023	08 Nov 2022	04 Oct 2021	06 Oct 2020
Machine Hours	4259	3298	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	178	171	195	186
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T:
F:



CONTAMINATION

Silicon	ppm	<1	1	1	4
Sodium	ppm	2	3	3	2
Potassium	ppm	0	<1	<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	5	7	11	10
Copper	ppm	3	4	5	6
Lead	ppm	<1	0	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	0	<1	<1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2	16	5	5
Magnesium	ppm	0	<1	0	<1
Zinc	ppm	3	5	6	8
Phosphorus	ppm	2302	2475	2482	1148
Barium	ppm	<1	0	7	360
Boron	ppm	<1	2	2	1

Depot: ACILAC
Unique No: 5658433
Signed: Wes Davis
Report Date: 16 Oct 2023



GRAPHS

