

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 121164-1216 - Transmission (Manual)

Sample No: LH

Oil Type: PETRO CANADA 10W40



SAMPLE INFORMATION

Sample Number	LH	LH0235219	LH	LH0177775
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

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



OIL CONDITION

Visc @ 40°C	cSt	58.0	56.9	52.7	53.7
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T:
F:



CONTAMINATION

Silicon	ppm	3	3	3	3
Sodium	ppm	11	16	28	34
Potassium	ppm	<1	1	3	3

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. Viscosity of sample indicates oil is within SAE 20 range, advise investigate. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	12	14	16	10
Copper	ppm	20	27	38	21
Lead	ppm	1	1	2	1
Tin	ppm	<1	<1	1	<1
Aluminum	ppm	4	4	6	5
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	50	38	18	<1
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	4	6	11	14
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	1630	1910	2709	3284
Magnesium	ppm	775	616	292	7
Zinc	ppm	1213	1172	1202	1125
Phosphorus	ppm	1096	1159	1158	1058
Barium	ppm	<1	<1	<1	1
Boron	ppm	2	2	3	3

Depot: ACILAC
 Unique No: 5658428
 Signed: Kevin Marson
 Report Date: 16 Oct 2023



GRAPHS

