

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 121164-1216 - Diesel Engine

Sample No: LH0274283

Oil Type: PETRO CANADA 10W40



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

T:
F:

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.



SAMPLE INFORMATION

Sample Number	LH0274283	LH0235226	LH	LH0177779
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	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	12.5	12.2	12.0	11.6
Oxidation (PA)	%	78	90	133	192



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	83	93	132	88
Sulfation (PA)	%	61	66	84	108
Glycol	%	NEG	NEG	NEG	0.0
Fuel	%	<1.0	1.9	<1.0	1
Silicon	ppm	7	7	10	11
Sodium	ppm	2	2	3	2
Potassium	ppm	<1	1	4	4



WEAR METALS

Iron	ppm	6	9	20	10
Copper	ppm	8	22	98	291
Lead	ppm	2	3	5	10
Tin	ppm	<1	<1	2	1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	60	60	59	45
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	0	<1	1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1066	1105	1143	1321
Magnesium	ppm	974	976	1030	907
Zinc	ppm	1162	1165	1182	817
Phosphorus	ppm	944	986	947	628
Barium	ppm	<1	<1	8	38
Boron	ppm	1	2	5	70

Depot: ACILAC
Unique No: 5658257
Signed: Kevin Marson
Report Date: 16 Oct 2023



GRAPHS

