

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 144587-1216 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



Sample Information

Sample Number	LH	LH	LH0234460	LH0250068
Sample Date	17 Jun 2024	12 Dec 2023	21 Jun 2023	23 Mar 2023
Machine Hours	3191	2050	1004	500
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 @ 100°C	cSt	12.3	13.1	13.1	12.0
Oxidation (PA)	%	99	83	82	212

T:
F:



Contamination

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0	0	0
Nitration (PA)	%	91	77	72	103
Sulfation (PA)	%	65	59	59	119
Glycol	%	NEG	NEG	0.0	NEG
Fuel	%	<1.0	<1.0	<1.0	1.3
Silicon	ppm	7	7	7	9
Sodium	ppm	4	2	2	2
Potassium	ppm	1	0	<1	2

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	10	9	7	11
Copper	ppm	8	48	269	270
Lead	ppm	0	2	8	9
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	2	1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	59	60	56	45
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	875	1043	1034	1438
Magnesium	ppm	1039	970	971	913
Zinc	ppm	1187	1203	1152	873
Phosphorus	ppm	979	926	1013	801
Barium	ppm	<1	1	3	29
Boron	ppm	18	1	7	112

Depot: IND550WIN
Unique No: 5800324
Signed: Wes Davis
Report Date: 19 Jun 2024



Graphs

