

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 118290-1216 - Diesel Engine

Sample No: LH0224801

Oil Type: DIESEL ENGINE OIL SAE 40



Weyerhaeuser
 1000 Jones road
 Kenora, ON
 CA P9N 3X8
 Contact: Rene Gagne
 rene.gagne@weyerhaeuser.com
 T: (807)548-7277
 F: (807)548-7201



SAMPLE INFORMATION

Sample Number	LH0224801	LH0260115	LH0158796	LH0158908
Sample Date	14 Oct 2023	11 Aug 2023	23 Oct 2021	09 Oct 2021
Machine Hours	19368	19366	1980	9990
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Changed	Changed
Sample Status	NORMAL	SEVERE	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.4	4.3	13.7	13.5
Oxidation (PA)	%	51	34	57	53



CONTAMINATION

Soot %	%	0	0	0	0
Nitration (PA)	%	48	51	75	63
Sulfation (PA)	%	44	40	59	46
Glycol	%	0.0	NEG	NEG	NEG
Fuel	%	0.8	49	<1.0	<1.0
Silicon	ppm	9	11	2	3
Sodium	ppm	5	2	1	4
Potassium	ppm	10	<1	<1	1



WEAR METALS

Iron	ppm	4	23	2	2
Copper	ppm	6	<1	111	<1
Lead	ppm	2	<1	3	1
Tin	ppm	0	0	0	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	4	<1	0
Molybdenum	ppm	4	2	0	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	<1	<1	<1
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1955	1158	2214	2074
Magnesium	ppm	165	20	8	13
Zinc	ppm	1031	562	1113	1062
Phosphorus	ppm	886	522	976	928
Barium	ppm	14	<1	<1	0
Boron	ppm	35	2	1	1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: WEY100KEN
 Unique No: 5658540
 Signed: Wes Davis
 Report Date: 18 Oct 2023



GRAPHS

