

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH50 1117942-1216 - Diesel Engine

Sample No: LH06061834

Oil Type: MOBIL DELVAC 1300 SUPER15W40



#### SAMPLE INFORMATION

Sample Number	LH06061834	LH0197960	LH0197959	LH0197848
Sample Date	02 Jan 2024	03 Nov 2023	14 Jul 2023	20 Mar 2023
Machine Hours	11286	10779	9732	8709
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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#### OIL CONDITION

Visc @ 100°C	cSt	12.9	12.7	13.1	13.0
Base Number (BN)	mg KOH/g	9.0	8.4	9.5	9.9
Oxidation (PA)	%	88	87	86	86



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.2	0.1
Nitration (PA)	%	71	67	71	70
Sulfation (PA)	%	58	59	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	8	8	11
Sodium	ppm	2	2	3	2
Potassium	ppm	0	0	<1	0



#### WEAR METALS

Iron	ppm	2	1	3	2
Copper	ppm	<1	2	1	<1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	2	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	46	40	42	39
Nickel	ppm	0	0	0	0
Titanium	ppm	0	1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	<1	0



#### ADDITIVES

Calcium	ppm	1721	1677	1816	1738
Magnesium	ppm	516	512	537	530
Zinc	ppm	936	915	944	941
Phosphorus	ppm	768	767	778	726
Barium	ppm	0	0	0	0
Boron	ppm	40	40	40	48

#### 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: PACTOM  
 Unique No: 10833216  
 Signed: Wes Davis  
 Report Date: 18 Jan 2024



### GRAPHS

