

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-139058 - Diesel Engine

Sample No: LHMC85075

Oil Type: MOBIL 15W40



SAMPLE INFORMATION

Sample Number	LHMC85075	LHMC51529	LHMC88790	LHMC62857
Sample Date	11 Oct 2023	17 Aug 2023	23 Jun 2023	04 May 2023
Machine Hours	4598	4098	5586	3081
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	13.0	13.1
Base Number (BN)	mg KOH/g	9.7	9.8	10.1	8.9
Oxidation (PA)	%	88	88	90	83

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.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	68	68	69	63
Sulfation (PA)	%	60	60	61	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	9	12	11	12
Sodium	ppm	3	3	2	3
Potassium	ppm	3	1	<1	2



WEAR METALS

Iron	ppm	2	3	3	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	1
Tin	ppm	0	<1	<1	1
Aluminum	ppm	1	5	2	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	39	41	40	38
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1621	1760	1654	1596
Magnesium	ppm	485	554	525	511
Zinc	ppm	855	961	947	917
Phosphorus	ppm	693	793	770	743
Barium	ppm	0	0	0	0
Boron	ppm	39	43	43	45

Depot: PACTOM
 Unique No: 10709950
 Signed: Wes Davis
 Report Date: 24 Oct 2023



GRAPHS

