CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-82019 - Diesel Engine

Sample No: LHMC132952

Copper

Aluminum

Chromium

Nickel

Silver

Titanium

Manganese

Vanadium

Molybdenum

Lead

Tin

Oil Type: SHELL ROTELLA T5 10W30 (CJ4)

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Samp	le Inform	ation			
Sample Number		LHMC132952	LHMC132851	LHMC112872	
Sample Date		16 Jul 2024	02 Jul 2024	09 Feb 2017	
Machine Hours		5673	94	2097	
Oil Hours		32	94	500	
Oil Changed		Not Changd	Changed	Changed	
Sample Status		NORMAL	NORMAL	ABNORMAL	
A					
Oil Co	ndition				
Visc @ 100°C	cSt	11.7	O 11.5	14.04	
Base Number (BN)	mg KOH/g	8.1	9.1		
Oxidation (PA)	%	61	52	○ 80	
Conta	mination	l			
Water	%	NEG	NEG	NEG	
Soot %	%	0.1	0.1	O 1.1	
Nitration (PA)	%	48	63	108	
Sulfation (PA)	%	54	49	O 64	
Glycol	%	NEG	NEG	NEG	
Fuel	%	0.3	<1.0	<1.0	
Silicon	ppm	8	O 12	10	
Sodium	ppm	1	O 5	7	
Potassium	ppm	9	O 15	4	
Wear	Metals				
Iron	ppm	4	O 11	9 7	





BRENNER RECYCLING

282 S WYOMING ST HAZLETON, PA US 18201

Contact: ROB CREGO

rob.crego@brennerrecycling.com

F: (866)210-0083

Diagnosis

Resample at the next service interval to monitor.All component wear rates are normal. Tests indicate that there is no fuel present in the oil. 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 acceptable for the time in service.

Additives								
Calcium	ppm	2096	O 1451	2202				
Magnesium	ppm	110	O 713	88				
Zinc	ppm	1181	○ 868	○ 801				
Phosphorus	ppm	998	O 791	O 662				
Barium	ppm	0 0	7	4				
Boron	ppm	165	O 75	3				

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Depot: **BREHAZ** Unique No: 11128860 Signed: Sean Felton **Report Date:** 23 Jul 2024

Contact/Location: ROB CREGO - BREHAZ

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Graphs

