LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50 1203-82019 - Diesel Engine

<1.0

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ppm

ppm

ppm

Sample No: LHMC132851

Fuel

Silicon

Sodium

Potassium

Oil Type: LIEBHERR MOTOROIL 5W30

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Samp	le Informa	ıtion					
Sample Number		LHMC132851	LHMC112872	LHMC80688			
Sample Date		02 Jul 2024	09 Feb 2017	11 Jul 2016			
Machine Hours		94	2097	767			
Oil Hours		94	500	767			
Oil Changed		Changed	Changed	Changed			
Sample Status		NORMAL	ABNORMAL	ABNORMAL			
Oil Condition							
Visc @ 100°C	cSt	11.5	O 14.04	14.00			
Base Number (BN)	mg KOH/g	9.1					
Oxidation (PA)	%	52	○ 80	68			
Contamination							
Water	%	NEG	NEG	NEG			
Soot %	%	0.1	O 1.1	0.5			
Nitration (PA)	%	63	108	83			
Sulfation (PA)	%	49	O 64	42			
Glycol	%	NEG	NEG	NEG			

(O)					
Wed	ır Metal	S			
Iron	ppm	11	9 7	O 84	
Copper	ppm	17	O 69	<u> </u>	
Lead	ppm	2	O 22	O 16	
Tin	ppm	2	O 2	O 7	
Aluminum	ppm	2	4 2	24	
Chromium	ppm	0	3	O 2	
Molybdenum	ppm	3	6	O 10	
Nickel	ppm	O <1	O 1	O 1	
Titanium	ppm	<1	0	<1	
Silver	ppm	O <1	0	0	
Manganese	ppm	1	2	3	
Vanadium	ppm	0	0	0	

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Additives							
Calcium	ppm	1451	2202	2012			
Magnesium	ppm	713	88	O 143			
Zinc	ppm	868	○ 801	O 777			
Phosphorus	ppm	791	O 662	590			
Barium	ppm	7	4	O 27			
Boron	ppm	75	3	4			





BRENNER RECYCLING

282 S WYOMING ST HAZLETON, PA US 18201

Contact: ROB CREGO

rob.crego@brennerrecycling.com

T:

F: (866)210-0083

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 acceptable for the time in service.

Depot:BREHAZUnique No:11126065Signed:Don BaldridgeReport Date:17 Jul 2024

Contact/Location: ROB CREGO - BREHAZ

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Graphs

