CONSTRUCTION EQUIPMENT

LIEBHERR LH60M 111993-1217 - Diesel Engine

Sample No: LH0236570

Oil Type: MOBIL 15W40

SAMPLE INFORMATION

08

06

0

ppm

ppm

ppm

Sample Number		LH0236570	LH0236571					
Sample Date		27 Feb 2023	20 Feb 2023					
Machine Hours		6500	6200					
Oil Hours		300	500					
Oil Changed		Changed	Changed					
Sample Status		NORMAL	SEVERE					
Visc @ 100°C	cSt	0 13.4	3.7					
Base Number (BN)	mg KOH/g	07.6	5.6					
Oxidation (PA)	%	51	34					
and a								
CONT.	AMINATIO	N						
Soot %	%	0.1	0.1					
Nitration (PA)	%	69	59					
Sulfation (PA)	%	49	39					
Glycol	%	NEG	NEG					
Fuel	%	0.6	55.3					
1 001	/0	0.0	00.0					

Potassium 0 15 ppm $\bigcirc 5$ \mathbf{O} **WEAR METALS** 8 🔘 Iron ppm 08 Copper ppm 08 \bigcirc Lead ppm ○ <1 00 Tin 01 ppm Aluminum 02 $\bigcirc 5$ ppm Chromium ○ <1 ppm $\bigcirc 1$ Molybdenum 05 ppm Nickel 0 $\bigcirc 0$ ppm Titanium <1 0 ppm Silver ○ <1 $\bigcirc 0$ ppm Manganese 0 <1 ppm ○ <1

01

Vanadium

Silicon

Sodium

	ITIVES			
Calcium	ppm	0 1979	1070	
Magnesium	ppm	281	8	
Zinc	ppm	0 1055	565	
Phosphorus	ppm	0 862	472	
Barium	ppm	0 12	○ <1	
Boron	ppm	0 51	32	





HEAVY MACHINES INC

159 NORTH AVE SKOWHEGAN, ME US 04976 Contact: RENEE WRIGHT REW@HEAVYMACHINESINC.COM T: (207)858-0051 F: (207)858-0052

Diagnosis

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

 Depot:
 LEC0052

 Unique No:
 10374154

 Signed:
 Jonathan Hester

 Report Date:
 16 Mar 2023

Contact/Location: RENEE WRIGHT - LEC0052

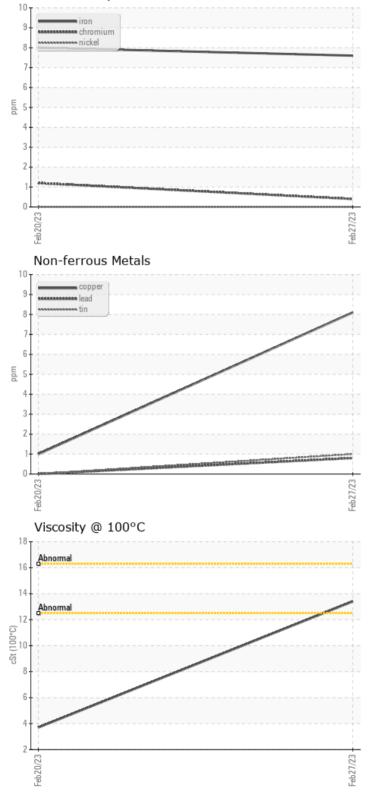


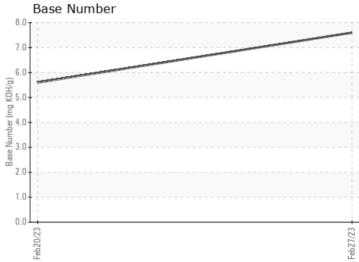


Ferrous Alloys

GRAPHS

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Contact/Location: RENEE WRIGHT - LEC0052