



LIEBHERR LTM1120-4.1 081556 - Diesel Engine

0 11.9

105

Sample No: LH0259079

Oil Type: LIEBHERR MOTOROIL 10W-40

SAMPLE INFORMATION

Sample Number	LH0259079	 	
Sample Date	22 Jan 2024	 	
Machine Hours	0	 	
Oil Hours	0	 	
Oil Changed	Changed	 	
Sample Status	ATTENTION	 	

OIL CONDITION Visc @ 100°C cSt

%

Oxidation (PA)

CONTAMINATION					
Water	%	NEG			
Soot %	%	0.1			
Nitration (PA)	%	68			
Sulfation (PA)	%	65			
Glycol	%	NEG			
Fuel	%	0.9			
Silicon	ppm	07			
Sodium	ppm	3			
Potassium	ppm	1 3			

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Iron	ppm	04	 	
Copper	ppm	0 4	 	
Lead	ppm	○ <1	 	
Tin	ppm	01	 	
Aluminum	ppm	01	 	
Chromium	ppm	0	 	
Molybdenum	ppm	07	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	○ <1	 	
Vanadium	ppm	0	 	

	TIVES			
Calcium	ppm	0 2138	 	
Magnesium	ppm	0 195	 	
Zinc	ppm	0 759	 	
Phosphorus	ppm	0 704	 	
Barium	ppm	02	 	
Boron	ppm	18	 	

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES **4100 CHESTNUT AVENUE** NEWPORT NEWS, VA US 23607 Contact: TERENCE VANDERLENDE TERENCE.VANDERLENDE@LIEBHERR.COM т: F:

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: LIENEW Unique No: 10846518 Signed: Don Baldridge Report Date: 26 Jan 2024

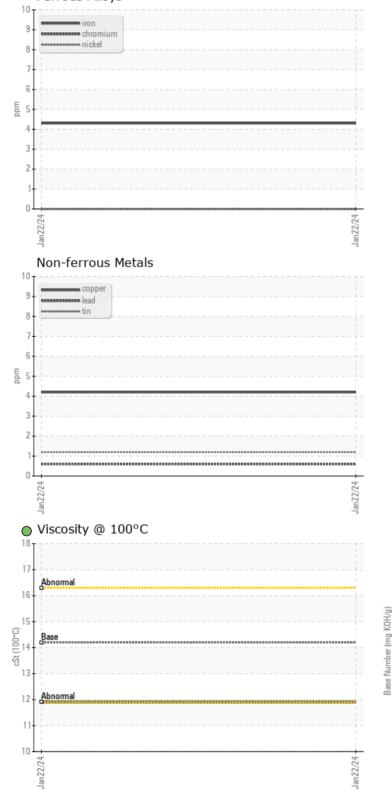


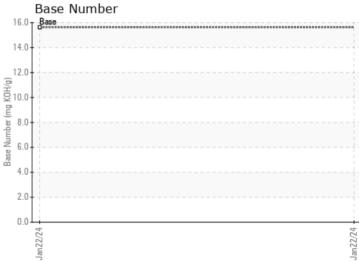


Ferrous Alloys

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Report Id: LIENEW [WUSCAR] 06069841 (Generated: 01/28/2024 19:49:08) Rev: 1

Contact/Location: TERENCE VANDERLENDE - LIENEW