LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 1216-105960 - Diesel Engine

Sample No: LHMC132948

Oil Type: LIEBHERR 10W30

<u> </u>					
SAMPLEINFORMATION					
Sample Number	LHMC132948	LHMC115876			
Sample Date	31 Aug 2023	15 Jan 2019			
Machine Hours	9828	646			
Oil Hours	0	646			
Oil Changed	N/A	Not Changd			
Sample Status	SEVERE	ABNORMAL			
A					

OILCO	ONDITION			
Visc @ 100°C	cSt	4.9	O 11.97	
Base Number (BN)	mg KOH/g	11.1		
Oxidation (PA)	%	69	193	
_				

CONTAMINATION					
Soot %	%	0.1	O.1		
Nitration (PA)	%	87	90		
Sulfation (PA)	%	47	106		
Glycol	%	NEG	NEG		
Fuel	%	51.9	<1.0		
Silicon	ppm	5	O 10		
Sodium	ppm	2	O 5		
Potassium	ppm	1	O 5		

O NAME A				
WEA	AR METALS			
Iron	ppm	3	18	
Copper	ppm	0 <1	337	
Lead	ppm	2	4	
Tin	ppm	0	O 1	
Aluminum	ppm	2	O 1	
Chromium	ppm	0	O <1	
Molybdenum	ppm	3	49	
Nickel	ppm	0	O <1	
Titanium	ppm	<1	<1	
Silver	ppm	○ <1	0	
Manganese	ppm	<1	2	
Vanadium	ppm	<1	0	

DITIVES				
ppm	2463	O 1421		
ppm	37	980		
ppm	699	○ 873		
ppm	585	O 543		
ppm	0	O 52		
ppm	163	○ 81		
	ppm ppm ppm ppm ppm	ppm	ppm ② 2463 ③ 1421 ppm ③ 37 ⑤ 980 ppm 699 ⑤ 873 ppm 585 ⑤ 543 ppm ⑥ 0 ⑤ 52	ppm 2463 1421 ppm 37 980 ppm 699 873 ppm 585 543 ppm 0 52



WIETSMANN AND SONDS OF SYRACUSE

333 BRIDGE STREET SOLVAY, NY US 13209

Contact: Service Manager

T: F:

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a severe amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot:WIESOLUnique No:10634664Signed:Don BaldridgeReport Date:08 Sep 2023





GRAPHS

