LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 157351-1216 - Diesel Engine

Sample No: LHMC133199

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH

ā							
SAMPLEINFORMATION							
Sample Number	LHMC133199						
Sample Date	08 Mar 2024						
Machine Hours	546						
Oil Hours	546						
Oil Changed	Changed						
Sample Status	NORMAL						
A							

OILCO	NDITION			
Visc @ 100°C	cSt	11.5	 	
Base Number (BN)	mg KOH/g	4.6	 	
Oxidation (PA)	%	218	 	

CONTAMINATION						
Water	%	NEG				
Soot %	%	0.1				
Nitration (PA)	%	104				
Sulfation (PA)	%	112				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	8				
Sodium	ppm	3				
Potassium	ppm	2				

(O) WEA				
₩ WEA	R METAL	S		
Iron	ppm	1 0	 	
-	- ' '			
Copper	ppm	126	 	
Lead	ppm	7	 	
Tin	ppm	0	 	
Aluminum	ppm	3	 	
Chromium	ppm	() <1	 	
Molybdenum	ppm	44	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	0	 	
Manganese	ppm	1	 	
Vanadium	ppm	<1	 	

	le le			
ADDI	TIVES			
Calcium	ppm	1332	 	
Magnesium	ppm	904	 	
Zinc	ppm	854	 	
Phosphorus	ppm	703	 	
Barium	ppm	31	 	
Boron	ppm	99	 	



ALTER TRADING
2424 CLARKE STREET
PEORIA, IL
US 61602
Contact: Service Manager

T: F:

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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:ALTPEOUnique No:10937046Signed:Jonathan HesterReport Date:22 Mar 2024

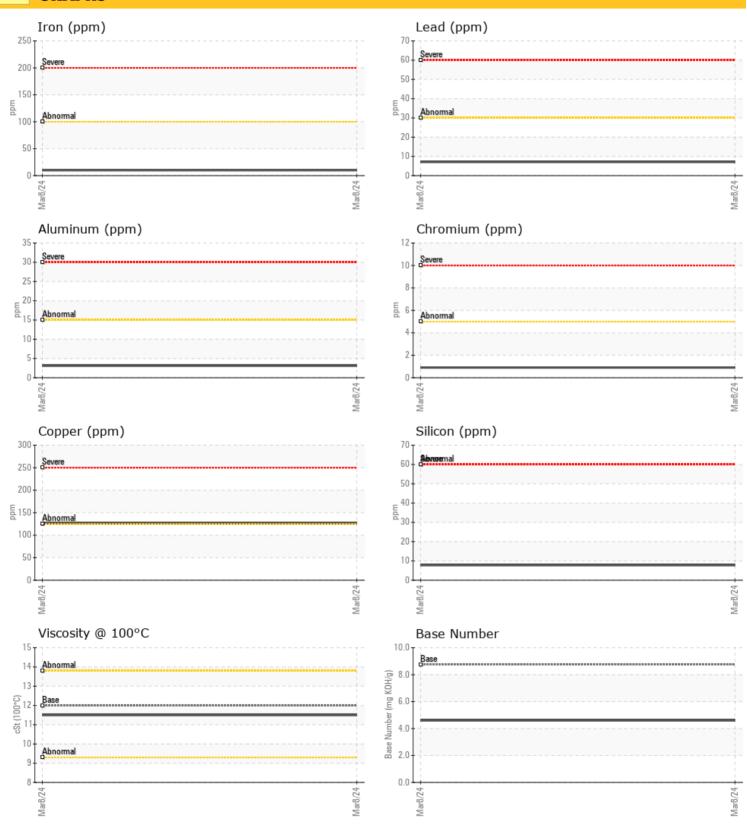
LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS



CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 157351-1216 - Splitter Box

Sample No: LHMC133243

LIEBHERR GEAR BASIC 90 LS Oil Type:

SAMPLEINFO	RMATION		
Sample Number	LHMC133243	 	
Sample Date	08 Mar 2024	 	
Machine Hours	546	 	
Oil Hours	546	 	
Oil Changed	Changed	 	
Sample Status	NORMAL	 	
A			



CONTAMINATION							
Water	%	NEG					
Silicon	ppm	○ <1					
Sodium	ppm	4					
Potassium	ppm	0					

₩E/	AR META	LS		
Iron	ppm	19	 	
Copper	ppm	() <1	 	
Lead	ppm	0	 	
Tin	ppm	0	 	
Aluminum	ppm	 <1	 	
Chromium	ppm	() <1	 	
Molybdenum	ppm	3	 	
Nickel	ppm	0	 	
Titanium	ppm	0	 	
Silver	ppm	0	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

vanadium	ppm	0	 	
ADDI	TIVES			
Calcium	ppm	15	 	
Magnesium	ppm	3	 	
Zinc	ppm	6	 	
Phosphorus	ppm	1767	 	
Barium	ppm	0	 	
Boron	ppm	7	 	



ALTER TRADING 2424 CLARKE STREET PEORIA, IL US 61602 Contact: Service Manager

T: F:

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 condition of the oil is acceptable for the time in service.

Depot: ALTPEO Unique No: 10937408 Signed: Wes Davis Report Date: 20 Mar 2024

CONSTRUCTION EQUIPMENT





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