CONSTRUCTION EQUIPMENT

LIEBHERR LH40M 147356-1215 - Diesel Engine

Sample No: LH0259168

λ.

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	LH0259168	 	
Sample Date	09 Oct 2023	 	
Machine Hours	499	 	
Oil Hours	499	 	
Oil Changed	Changed	 	
Sample Status	ABNORMAL	 	

OIL CO	NDITION			
Visc @ 100°C	cSt	<mark>)</mark> 12.1	 	
Base Number (BN)	mg KOH/g	0 4.3	 	
Oxidation (PA)	%	211	 	

Soot %	%	0.1					
Nitration (PA)	%	101					
Sulfation (PA)	%	112					
Glycol	%	NEG					
Fuel	%	0.8					
Silicon	ppm	08					
Sodium	ppm	04					
Potassium	ppm	0 2					

WEAR METALS

Iron	ppm	07	 	
Copper	ppm	<u> </u>	 	
Lead	ppm	01	 	
Tin	ppm	01	 	
Aluminum	ppm	3	 	
Chromium	ppm	<mark></mark> <1	 	
Molybdenum	ppm	0 42	 	
Nickel	ppm	0	 	
Titanium	ppm	○ <1	 	
Silver	ppm	0	 	
Manganese	ppm	01	 	
Vanadium	ppm	0	 	

0

ADDITIVES								
Calcium	ppm	0 1201						
Magnesium	ppm	0 838						
Zinc	ppm	0 792						
Phosphorus	ppm	663						
Barium	ppm	0 23						
Boron	ppm	0 85						





RECO EQUIPMENT INC

8075 PRODUCTION DRIVE FLORENCE, KY US 41042 Contact: TRACEY EDGERTON tedgerton@recoequip.com T: F: (859)727-7974

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in. 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:
 LEC0082

 Unique No:
 10716194

 Signed:
 Jonathan Hester

 Report Date:
 02 Nov 2023

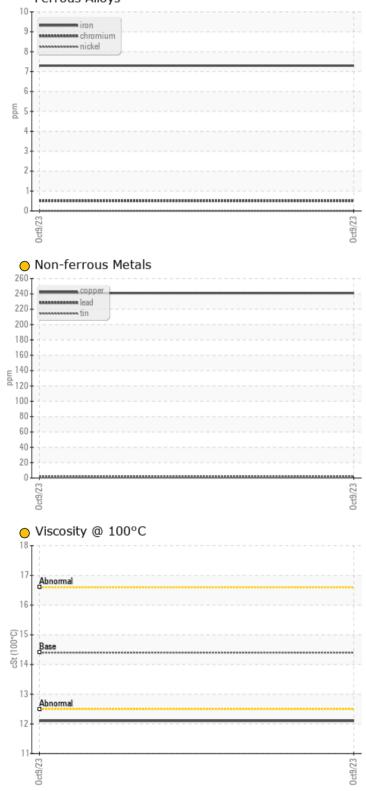




Ferrous Alloys

GRAPHS

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Base Number

Contact/Location: TRACEY EDGERTON - LEC0082