LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR LH50M 120737-1216 - Diesel Engine

Sample No: LHMC104641

Oxidation (PA)

Oil Type: CHEVRON URSA SUPER PLUS EC 15W40

173

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SAMPLE INFORMATION						
Sample Number		LHMC104641				
Sample Date		04 Sep 2020				
Machine Hours		308				
Oil Hours		308				
Oil Changed		Changed				
Sample Status		ABNORMAL				
OIL CONDITION						
Visc @ 100°C	cSt	<u> </u>				

CONTAMINATION						
Soot %	%	0.1				
Nitration (PA)	%	82				
Sulfation (PA)	%	100				
Glycol	%	NEG				
Fuel	%	1.0				
Silicon	ppm	9				
Sodium	ppm	2				
Potassium	ppm	3				

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WEA	AR META	LS		
Iron	ppm	8	 	
Copper	ppm	235	 	
Lead	ppm	4	 	
Tin	ppm	1	 	
Aluminum	ppm	1	 	
Chromium	ppm	○ <1	 	
Molybdenum	ppm	51	 	
Nickel	ppm	0	 	
Titanium	ppm	<1	 	
Silver	ppm	<1	 	
Manganese	ppm	2	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	1408				
Magnesium	ppm	815				
Zinc	ppm	926				
Phosphorus	ppm	744				
Barium	ppm	25				
Boron	ppm	107				



STAIMAN RECYCLING

201 HEPBURN ST WILLIAMSPORT, PA US 17701

Contact: JOE MARKLEY jmarkleysr@staimanrecycling.com

T: (570)419-5479

F:

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. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

Depot: STAWILLH
Unique No: 9178061
Signed: Jonathan Hester
Report Date: 21 Sep 2020

LIEBHERR

CONSTRUCTION EQUIPMENT





GRAPHS

