

LIEBHERR R945 57224 - Diesel Engine

Sample No: LH0268317

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Oil Type: LIEBHERR MOTOROIL 5W30

SAMPLE INFORMATION

Sample Number	LH0268317	 	
Sample Date	03 Mar 2024	 	
Machine Hours	522	 	
Oil Hours	522	 	
Oil Changed	Changed	 	
Sample Status	ABNORMAL	 	

OIL CO	NDITION		
Visc @ 100°C	cSt	0 12.0	
Base Number (BN)	mg KOH/g	◯ 4.0	
Oxidation (PA)	%	200	

Water	%	NEG			
Soot %	%	0.1			
Nitration (PA)	%	103			
Sulfation (PA)	%	106			
Glycol	%	NEG			
Fuel	%	<1.0			
Silicon	ppm	0 15			
Sodium	ppm	01			
Potassium	ppm	0 5			

(•) WEAR METALS Iron ppm 0 16 Copper 0 315 ppm Lead 04 ppm Tin 2 ppm Aluminum 05 ppm Chromium 02 ppm Molybdenum 0 43 ppm Nickel ○ <1 ppm Titanium 1 ppm Silver 0 ppm Manganese 02 ppm Vanadium ppm 0

		0			
Calcium	ppm	0 1493			
Magnesium	ppm	0 879			
Zinc	ppm	918			
Phosphorus	ppm	0 782			
Barium	ppm	0 20			
Boron	ppm	0 105			





M&F CONCRETE PRODUCTS CO 4002 CATLETT RD CATLETT, VA US 20119 Contact: Service Manager

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Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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. 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 acceptable for the time in service.

Depot:MECCATUnique No:10941058Signed:Sean FeltonReport Date:26 Mar 2024

Report Id: MECCAT [WUSCAR] 06126907 (Generated: 03/28/2024 02:54:15) Rev: 1

Contact/Location: Service Manager - MECCAT

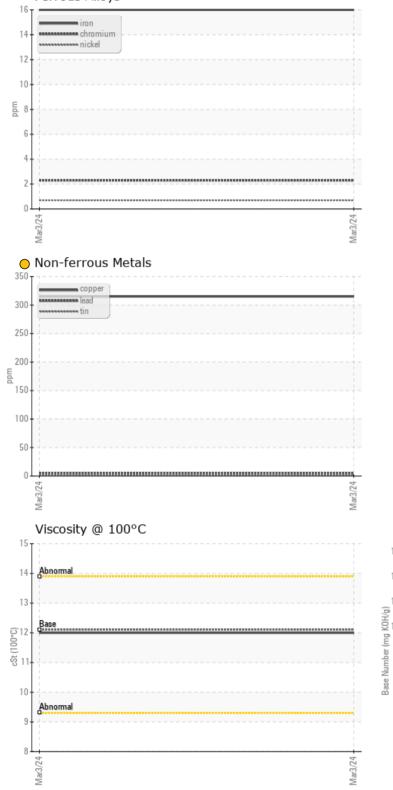
CONSTRUCTION EQUIPMENT

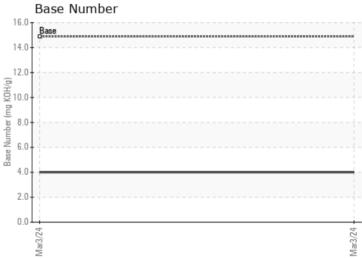


Ferrous Alloys

GRAPHS

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