### **CONSTRUCTION EQUIPMENT**

#### LIEBHERR LH40M 1215-149851 - Diesel Engine

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Sample No: LH0273628

**Oil Type: DIESEL ENGINE OIL SAE 5W30** 

#### **Sample Information**

Sample Number	LH0273628	 	
Sample Date	14 May 2024	 	
Machine Hours	549	 	
Oil Hours	549	 	
Oil Changed	N/A	 	
Sample Status	ABNORMAL	 	

Oil Co	Oil Condition		
Visc @ 100°C	cSt		
Base Number (BN)	mg KOH/g		
Oxidation (PA)	%		

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Manganese

Vanadium

ppm

ppm

<b>Contamination</b>						
Water	%	NEG				
Soot %	%	0.1				
Nitration (PA)	%	99				
Sulfation (PA)	%	108				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	0 9				
Sodium	ppm	<b>3</b>				
Potassium	ppm	0 5				

#### (•) Wear Metals Iron ppm 8 🔘 Copper 0 216 ppm <mark>()</mark> <1 Lead ppm Tin 01 ppm Aluminum 3 ppm Chromium ○ <1 ppm Molybdenum 0 43 ppm Nickel 0 ppm Titanium 0 <1 ppm Silver 0 ppm

Additives							
Calcium	ppm	0 1326					
Magnesium	ppm	<b>912</b>					
Zinc	ppm	854					
Phosphorus	ppm	0 708					
Barium	ppm	26					
Boron	ppm	<b>0</b> 103					

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STAINLESS STEL MIDWEST 2615 KY-146 LAGRANGE, KY US 40031 Contact: Service Manager

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#### Diagnosis

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 component wear rates are normal. 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: Unique No: Signed: **Report Date:**  STALAGKY 11087311 Don Baldridge 21 Jun 2024 Submitted By: ?

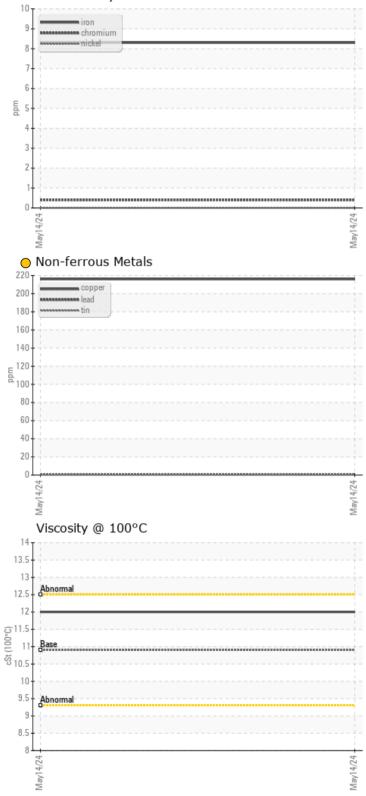
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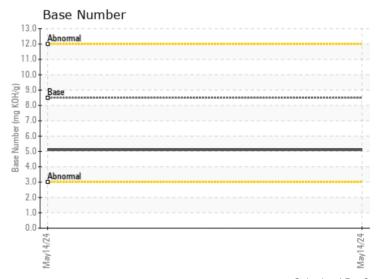


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#### Ferrous Alloys

Graphs





#### Report Id: STALAGKY [WUSCAR] 06214447 (Generated: 06/21/2024 13:58:54) Rev: 1