

[[\$20230323035857]] LIEBHERR TA 230 7369 - Diesel Engin

Sample No: LH06059095

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	LH06059095
Sample Date	29 Dec 2023
Machine Hours	2227
Oil Hours	0
Oil Changed	Changed
Sample Status	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	0 13.7	 	
Base Number (BN)	mg KOH/g	0 8.1	 	
Oxidation (PA)	%	66	 	
- AL				

Water	%	NEG					
Soot %	%	0.1					
Nitration (PA)	%	59					
Sulfation (PA)	%	56					
Glycol	%	NEG					
Fuel	%	<1.0					
Silicon	ppm	07					
Sodium	ppm	○ <1					
Potassium	ppm	0 2					

\bigcirc WEAR METALS Iron ppm ◯ <1 Copper 0 10 ppm Lead 01 ppm Tin ○ <1 ppm Aluminum 2 ppm Chromium 0 ppm Molybdenum 04 ppm Nickel 02 ppm Titanium 072 ppm Silver 0 <1 ppm Manganese ppm ○ <1</p> Vanadium ppm <1

0						
ADDITIVES						
Calcium	ppm	O 1593				
Magnesium	ppm	0 466				
Zinc	ppm	0 1219				
Phosphorus	ppm	968				
Barium	ppm	01				
Boron	ppm	122				

LIEHTER

HEAVY MACHINES INC.

3930 EAST RAINES RD MEMPHIS, TN US 38118 Contact: J. DAVIS JDAVIS@HEAVY.LLC.COM T: F: (901)260-2245

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

 Depot:
 LEC0051

 Unique No:
 10830477

 Signed:
 Wes Davis

 Report Date:
 12 Jan 2024

Report Id: LEC0051 [WUSCAR] 06059095 (Generated: 01/12/2024 17:47:47) Rev: 1

Contact/Location: J. DAVIS - LEC0051

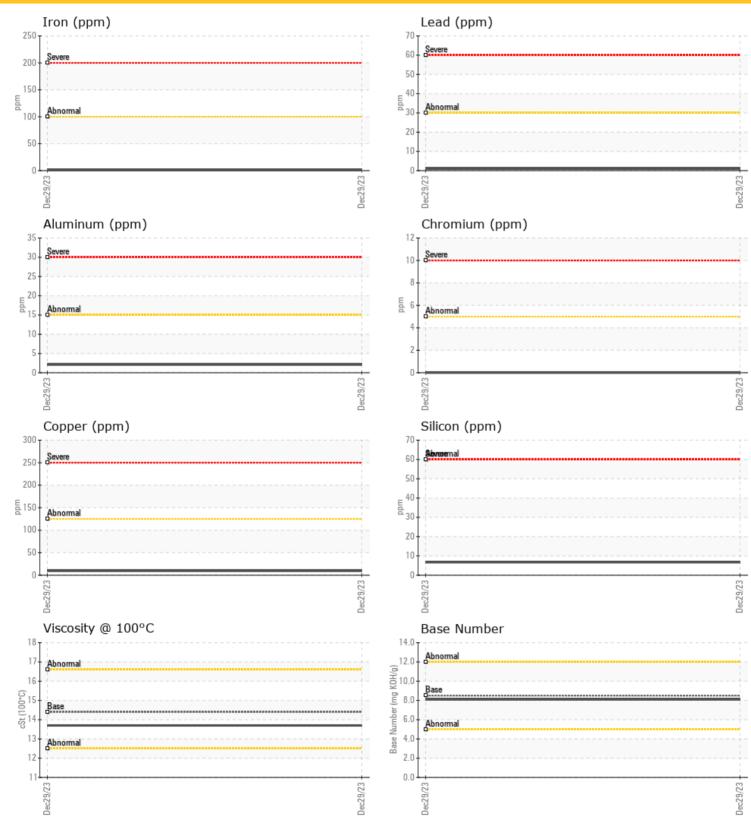






GRAPHS

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Contact/Location: J. DAVIS - LEC0051