LIEBHERR

CONSTRUCTION EQUIPMENT

LIEBHERR TA230 1513-137433 - Diesel Engine

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Sample No: LH0236033

Base Number (BN) mg KOH/g

ppm

ppm

Sodium

Potassium

Oil Type: DIESEL ENGINE OIL SAE 15W40

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SAMPLE INFORMATION						
Sample Number	LH0236033					
Sample Date	21 Jun 2023					
Machine Hours	818					
Oil Hours	0					
Oil Changed	Changed					
Sample Status	NORMAL					
OIL CONDITION						
Visc @ 100°C c5	St 12.6					

/ /	3 - 3	O				
Oxidation (PA)	%	81				
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CONTAMINATION						
	AMINAIN					
Soot %	%	0.1				
Nitration (PA)	%	58				
Sulfation (PA)	%	60				
Glycol	%	NEG				
Fuel	%	<1.0				
Silicon	ppm	9				

₩EA	R META	LS		
Iron	ppm	4	 	
Copper	ppm	88	 	
Lead	ppm	0	 	
Tin	ppm	○ <1	 	
Aluminum	ppm	0	 	
Chromium	ppm	0	 	
Molybdenum	ppm	44	 	
Nickel	ppm	0	 	
Titanium	ppm	1	 	
Silver	ppm	0	 	
Manganese	ppm	0 <1	 	
Vanadium	ppm	0	 	

ADDITIVES					
Calcium	ppm	913			
Magnesium	ppm	754			
Zinc	ppm	920			
Phosphorus	ppm	738			
Barium	ppm	0			
Boron	ppm	24			



AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK

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Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.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 suitable for further service.

Depot: LEC0008
Unique No: 10540012
Signed: Wes Davis
Report Date: 05 Jul 2023

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GRAPHS





