

LIEBHERR R945 053481-1866 - Diesel Engine

Sample No: LH0273816

Oil Type: DIESEL ENGINE OIL SAE 5W30

SAMPLE INFORMATION

Sample Number	LH0273816	LH0220715	
Sample Date	02 Feb 2024	29 Sep 2022	
Machine Hours	574	425	
Oil Hours	0	0	
Oil Changed	Not Changd	N/A	
Sample Status	NORMAL	ABNORMAL	

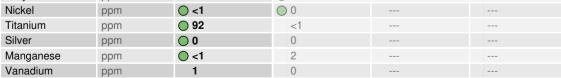
OIL CONDITION@ 100°CcSt

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Visc @ 100°C	cSt	0 13.4	0 12.1	
Base Number (BN)	mg KOH/g	07.6	○ 5.5	
Oxidation (PA)	%	60	210	

CON1	AMIN/	ATION		
Water	%	NEG	NEG	
Soot %	%	0.1	0.1	
Nitration (PA)	%	67	114	
Sulfation (PA)	%	53	114	
Glycol	%	NEG	NEG	
Fuel	%	<1.0	0 1.2	
Silicon	ppm	0 11	0 10	
Sodium	ppm	0 🔘	0	
Potassium	ppm	05	8	

\bigcirc WEAR METALS Iron ppm 04 0 14 Copper 0 41 ppm 17 Lead 01 2 ppm Tin ○ <1 ppm 2 Aluminum 01 04 ppm Chromium ○ <1 $\bigcirc 1$ ppm Molybdenum 0 42 ppm 7



ADDITIVES						
Calcium	ppm	0 1326	0 1431			
Magnesium	ppm	647	828			
Zinc	ppm	0 1096	873			
Phosphorus	ppm	0 1002	678			
Barium	ppm	01	0 18			
Boron	ppm	0 157	90			





AMERICAN STATE EQUIPMENT CO.

2400 NORTH 14TH AVENUE WAUSAU, WI US 54401 Contact: CHRIS BARTNIK cbartnik@amstate.com T: (715)675-6900 F: (715)675-9748

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 acceptable for the time in service.

 Depot:
 LEC0008

 Unique No:
 10883724

 Signed:
 Don Baldridge

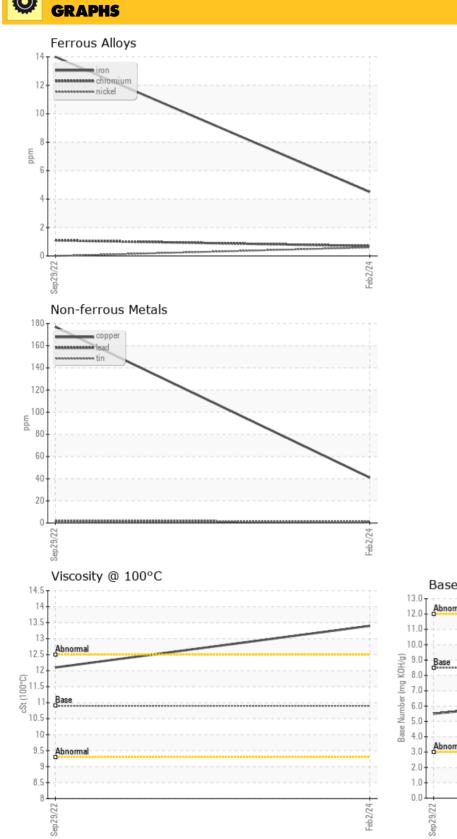
 Report Date:
 19 Feb 2024

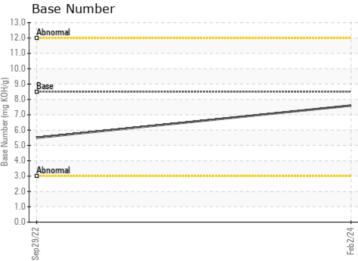
Contact/Location: CHRIS BARTNIK - LEC0008











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