

# LIEBHERR L566 1484-49442 - Diesel Engine

Sample No: LH0268802

**Oil Type: DIESEL ENGINE OIL SAE 5W40** 

# **SAMPLE INFORMATION**

Sample Number	LH0268802	 	
Sample Date	17 Jan 2024	 	
Machine Hours	4536	 	
Oil Hours	500	 	
Oil Changed	Changed	 	
Sample Status	SEVERE	 	

#### **OIL CONDITION** Visc @ 100°C cSt

Visc @ 100°C	cSt	0 13.6
Base Number (BN)	mg KOH/g	06.4
Oxidation (PA)	%	57

	TAMIN	ATION		
Water	%	NEG	 	
Soot %	%	0.1	 	
Nitration (PA)	%	70	 	
Sulfation (PA)	%	53	 	
Glycol	%	NEG	 	
Fuel	%	<1.0	 	
Silicon	ppm	06	 	
Sodium	ppm	0 🔘	 	
Potassium	ppm	01	 	

#### 10 WEAD METAIC

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Iron	ppm	0	 	
Copper	ppm	0 251	 	
Lead	ppm	<b>○</b> <1	 	
Tin	ppm	0	 	
Aluminum	ppm	<b>○</b> <1	 	
Chromium	ppm	<b>○</b> <1	 	
Molybdenum	ppm	8	 	
Nickel	ppm	0	 	
Titanium	ppm	<b>○</b> <1	 	
Silver	ppm	0	 	
Manganese	ppm	<b>○</b> <1	 	
Vanadium	ppm	0	 	

ADDITIVES						
Calcium	ppm	<b>1260</b>				
Magnesium	ppm	<b>692</b>				
Zinc	ppm	<b>830</b>				
Phosphorus	ppm	697				
Barium	ppm	0				
Boron	ppm	071				





## ECO BLOCK

2650 W 5TH AVE GARY, IN US 46408 Contact: JAMES CROOK jcrook@ecoblockmfg.com T: (219)886-3000 F: (219)886-3001

## 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 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:**  ECOGAR 10862459 Sean Felton 07 Feb 2024

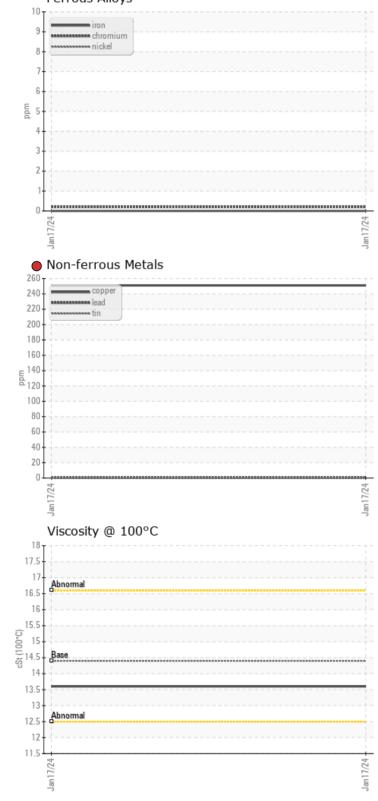




## Ferrous Alloys

GRAPHS

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 13.0
 Abnormal

 12.0
 Abnormal

 11.0
 Base

 9.0
 8.0

 00
 7.0

 4.0
 Abnormal

Base Number

3.0

2.0 1.0

0.0

Jan17/24

