

LIEBHERR L556 1826-66703 - Diesel Engine

Sample No: LH0268180

Oil Type: DIESEL ENGINE OIL SAE 5W40

SAMPLE INFORMATION

ppm

Potassium

04

Sample Number		LH0268180	LH0243713	LH0244233	LHMC119092		
Sample Date		09 Feb 2024	15 Dec 2023	02 Jun 2023	31 Mar 2023		
Machine Hours		7715	7039	5209	0		
Oil Hours		0	500	0	0		
Oil Changed		Changed	Changed	Changed	N/A		
Sample Status		NORMAL	NORMAL	NORMAL	NORMAL		
OIL CO	NDITION						
Visc @ 100°C	cSt	0 12.5	0 13.4	13.2	0 13.3		
Base Number (BN)	mg KOH/g	07.4	6.4	6.6	7.6		
Oxidation (PA)	%	60	67	67	60		
Water	%	NEG	NEG	NEG	NEG		
Soot %	%	0.1	0.1	0.1	0.1		
Nitration (PA)	%	78	75	70	72		
Sulfation (PA)	%	52	59	56	52		
Glycol	%	NEG	NEG	NEG	NEG		
Fuel	%	<1.0	<1.0	<1.0	<1.0		
Silicon	ppm	9	9	8	8		
Sodium	ppm	○ <1	0 4	01	○ <1		

A					
WE/	AR META	LS			
Iron	ppm	05	6	5	5
Copper	ppm	0 2	03	02	2
Lead	ppm	0	0	◯ <1	0
Tin	ppm	0 (○ <1	◯ <1	0
Aluminum	ppm	0 2	01	0	0
Chromium	ppm	<mark></mark> <1	○ <1	◯ <1	0
Molybdenum	ppm	04	5	22	32
Nickel	ppm	0 (0	◯ <1	0
Titanium	ppm	96	83	59	50
Silver	ppm	0 (0	0	0
Manganese	ppm	0	◯ <1	◯ <1	<1
Vanadium	ppm	1	<1	<1	0

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Calcium	ppm	0 1258	0 1302	0 1236	1156	
Magnesium	ppm	690	○ 706	○ 666	○ 775	
Zinc	ppm	0 1146	0 1189	0 1101	1173	
Phosphorus	ppm	0 1027	975	921	887	
Barium	ppm	0 12	0	2	0	
Boron	ppm	0 119	69	62	55	

Depot: Unique No: Signed: **Report Date:** ALTSOU 10876051 Wes Davis 15 Feb 2024



ALTER TRADING 201 WHEELER AVE

SOUTH BELOIT, IL US 61080 Contact: Service Manager

T: F:

Diagnosis

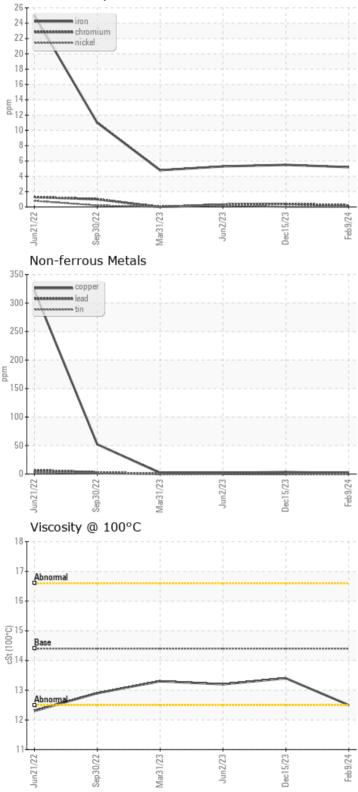
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





GRAPHS

Ferrous Alloys



Base Number 13.0 Abnorma 12.0 11.0 10.0 9.0 8.0 7.0 6.0 5.0 4.0 Base 3.0 2.0 1.0 0.0-Sep30/22. Feb 9/24 Mar31/23 Dec15/23 Jun21/22 Jun2/23

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