

# LIEBHERR L586 069044-1761 - Diesel Engine

Sample No: LH0267647

Oil Type: DIESEL ENGINE OIL SAE 5W40

# SAMPLE INFORMATION

Sample Number	LH0267647	LHMC155691	 
Sample Date	22 Nov 2023	27 Oct 2022	 
Machine Hours	1985	760	 
Oil Hours	0	760	 
Oil Changed	Changed	Changed	 
Sample Status	NORMAL	ATTENTION	 

<b>OIL CONDITION</b>					
Visc @ 100°C	cSt	13.6	11.8		
Base Number (BN)	mg KOH/g	<b>6.7</b>	0 4.6		
Oxidation (PA)	%	61	237		
and a local sector					

CON	TAMIN			
Water	%	NEG	NEG	 
Soot %	%	0.1	0.1	 
Nitration (PA)	%	71	107	 
Sulfation (PA)	%	55	122	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	0 1.8	 
Silicon	ppm	09	0 10	 
Sodium	ppm	03	01	 
Potassium	ppm	04	0 10	 

### $\bigcirc$ WEAR METALS Iron ppm 04 0 12 Copper 0 16 ppm 135 Lead 0 <1 ppm 7 Tin 0 <1 ppm Aluminum 01 04 ppm Chromium ○ <1 ○ <1 ppm Molybdenum 05 044 ppm Nickel 0 $\bigcirc 0$ ppm Titanium 03 0 <1 ppm Silver 0 ( 0 ppm Manganese ppm **○** <1 02 Vanadium ppm <1 0

ADDITIVES						
Calcium	ppm	0 1327	0 1337			
Magnesium	ppm	0 724	0 874			
Zinc	ppm	884	0 802			
Phosphorus	ppm	0 785	659			
Barium	ppm	02	24			
Boron	ppm	0 78	0 86			



Report Id: MIDCHIIL [WUSCAR] 06060054 (Generated: 01/16/2024 10:54:26) Rev: 1

-



## 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.

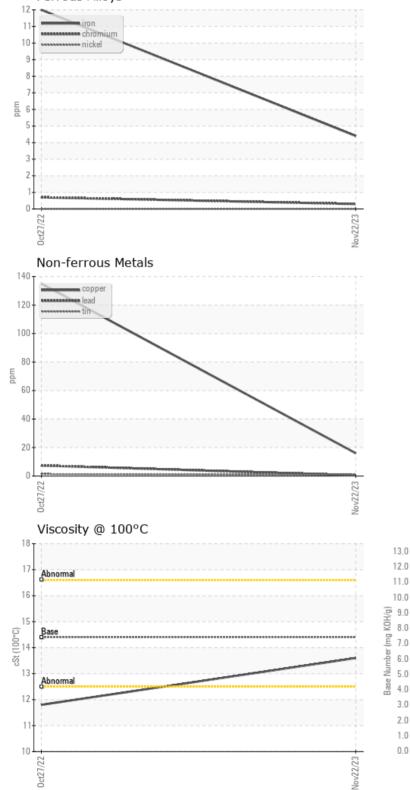


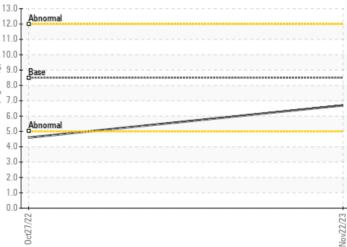






### Ferrous Alloys





Base Number

Report Id: MIDCHIIL [WUSCAR] 06060054 (Generated: 01/16/2024 10:54:28) Rev: 1