# CONSTRUCTION EQUIPMENT

## LIEBHERR L580 066006-1760 - Diesel Engine

Sample No: LH0262524

Oil Type: LIEBHERR MOTOROIL 5W30

### SAMPLE INFORMATION

Sample Number	LH0262524	LHMC126780	LH0235834	
Sample Date	11 Sep 2023	22 May 2023	16 Sep 2022	
Machine Hours	2465	1461	10	
Oil Hours	0	560	0	
Oil Changed	N/A	Changed	N/A	
Sample Status	NORMAL	NORMAL	ATTENTION	

Visc @ 100°C	cSt	11.3	0 11.8	0 12.3	
Base Number (BN)	mg KOH/g	0 15.2	0 15.9	8.5	
Oxidation (PA)	%	45	43	204	
21 C					

Soot %	%	0.1	0.1	0.1	
Nitration (PA)	%	101	88	76	
Sulfation (PA)	%	42	42	113	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	0.9	
Silicon	ppm	0 16	0 10	0 10	
Sodium	ppm	0 2	2	◯ <1	
Potassium	ppm	01	○ <1	0	

#### WEAR METALS

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		LJ			
Iron	ppm	0 9	0 4	03	
Copper	ppm	03	02	0 12	
Lead	ppm	<b>○</b> <1	0	◯ <1	
Tin	ppm	<b>○</b> <1	0	0	
Aluminum	ppm	0 2	07	5	
Chromium	ppm	<b>○</b> <1	0	◯ <1	
Molybdenum	ppm	6	◯ <1	0 44	
Nickel	ppm	0 🔘	0	0 (	
Titanium	ppm	0	0	◯ <1	
Silver	ppm	0 (	0	0	
Manganese	ppm	<b>○</b> <1	0	0 2	
Vanadium	ppm	0	0	0	

ADDITIVES						
Calcium	ppm	0 4267	◯ 4385	0 1295		
Magnesium	ppm	0 47	66	887		
Zinc	ppm	<b>0</b> 1180	0 1309	844		
Phosphorus	ppm	<b>O</b> 1014	0 1071	○ 765		
Barium	ppm	0	0	0 14		
Boron	ppm	0 227	255	0 130		

Depot: Unique No: Signed: Report Date: MRBBURLH 10700754 Wes Davis 19 Oct 2023



#### MR BULTS INC 2627 E 139TH ST BURNHAM, IL

US 60633 Contact: SERVICE MANAGER

T: (708)868-0059 F:

#### Diagnosis

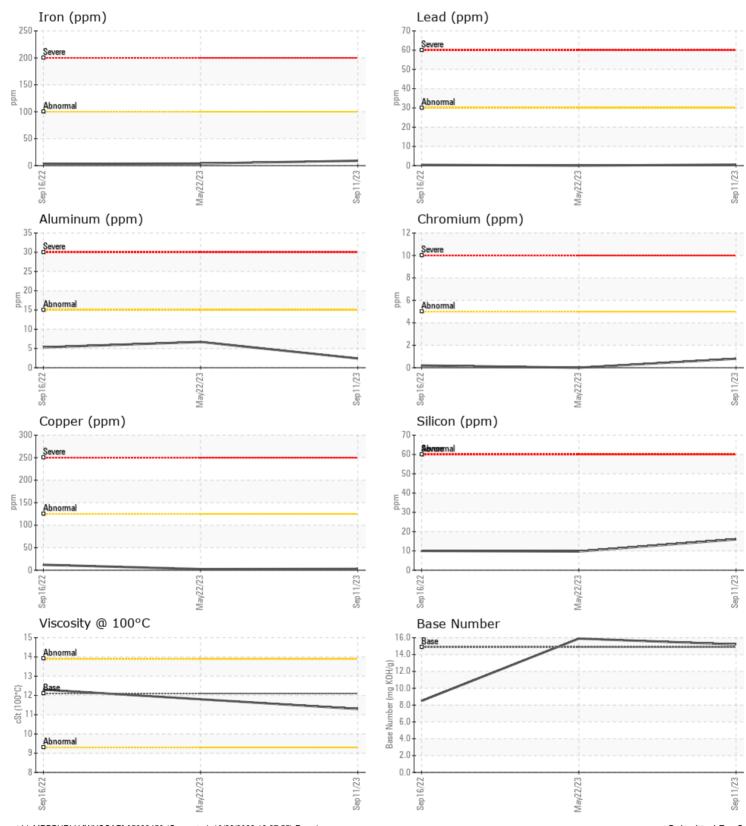
Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.





GRAPHS

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