

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 31 (S/N 6580) - Diesel Engine

Sample No: LHMC122784

Oil Type: LIEBHERR



#### Sample Information

Sample Number	LHMC122784	LHMC117196	---	---
Sample Date	06 Jun 2024	04 Jan 2022	---	---
Machine Hours	12926	7953	---	---
Oil Hours	250	258	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	NORMAL	ATTENTION	---	---

**GENESEE AGGREGATES**  
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 US 53227  
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#### Oil Condition

Visc @ 100°C	cSt	13.4	12.3	---	---
Base Number (BN)	mg KOH/g	7.1	8.4	---	---
Oxidation (PA)	%	54	54	---	---



#### Contamination

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	70	67	---	---
Sulfation (PA)	%	53	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.7	---	---
Silicon	ppm	8	7	---	---
Sodium	ppm	1	1	---	---
Potassium	ppm	5	3	---	---

#### 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.



#### Wear Metals

Iron	ppm	7	8	---	---
Copper	ppm	3	<1	---	---
Lead	ppm	<1	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	3	<1	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	8	4	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	89	7	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	1	<1	---	---



#### Additives

Calcium	ppm	1292	1378	---	---
Magnesium	ppm	684	647	---	---
Zinc	ppm	1124	807	---	---
Phosphorus	ppm	973	739	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	95	87	---	---

**Depot:** GENMILLH  
**Unique No:** 11109578  
**Signed:** Jonathan Hester  
**Report Date:** 05 Jul 2024



### Graphs

