

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 135986 - Diesel Engine

Sample No: LH

Oil Type: DIESEL ENGINE OIL SAE 40



#### Sample Information

Sample Number	LH	LH	LH0278480	---
Sample Date	04 Jul 2024	07 May 2024	22 Dec 2023	---
Machine Hours	5083	4737	3966	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---

#### Industrial Metals

550 Messier St.  
Winnipeg, MB  
CA R2J 0G5  
Contact: Service Manager



#### Oil Condition

Visc @ 100°C	cSt	10.8	10.8	10.4	---
Oxidation (PA)	%	98	86	77	---

T:  
F:



#### Contamination

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0	0	---
Nitration (PA)	%	92	83	75	---
Sulfation (PA)	%	64	59	57	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	0.0	0.3	1.6	---
Silicon	ppm	6	6	6	---
Sodium	ppm	4	4	1	---
Potassium	ppm	<1	<1	0	---

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	6	4	5	---
Copper	ppm	3	2	4	---
Lead	ppm	0	0	1	---
Tin	ppm	0	0	<1	---
Aluminum	ppm	1	1	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	60	58	59	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



#### Additives

Calcium	ppm	831	851	1070	---
Magnesium	ppm	1089	1094	979	---
Zinc	ppm	1187	1198	1176	---
Phosphorus	ppm	1014	960	992	---
Barium	ppm	<1	0	<1	---
Boron	ppm	22	30	<1	---

Depot: IND550WIN  
Unique No: 5814138  
Signed: Kevin Marson  
Report Date: 21 Jul 2024



### Graphs

