

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH30M 112196-1253 - Diesel Engine

Sample No: LH0243302

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH



**RECO EQUIPMENT INC**  
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 BRIGHTON, MI  
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#### SAMPLE INFORMATION

Sample Number	LH0243302	LHMC165174	LHMC104773	---
Sample Date	24 Aug 2023	10 Jun 2021	30 Nov 2020	---
Machine Hours	4050	1038	602	---
Oil Hours	1750	1038	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	<b>NORMAL</b>	MARGINAL	ABNORMAL	---



#### OIL CONDITION

Visc @ 100°C	cSt	● 12.5	● 11.2	● 11.4	---
Base Number (BN)	mg KOH/g	● 7.1	---	---	---
Oxidation (PA)	%	114	88	178	---



#### CONTAMINATION

Soot %	%	● 0.1	● 0.1	● 0.1	---
Nitration (PA)	%	178	90	89	---
Sulfation (PA)	%	71	63	103	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	● 7	● 6	● 8	---
Sodium	ppm	● 2	● 2	● 4	---
Potassium	ppm	● 3	● <1	● 17	---



#### WEAR METALS

Iron	ppm	● 34	● 8	● 12	---
Copper	ppm	● 22	● 127	● 349	---
Lead	ppm	● 6	● 4	● 6	---
Tin	ppm	● 3	● 4	● 4	---
Aluminum	ppm	● 3	● 0	● 2	---
Chromium	ppm	● <1	● <1	● <1	---
Molybdenum	ppm	● 26	● 60	● 46	---
Nickel	ppm	● <1	● 0	● 1	---
Titanium	ppm	1	● <1	● <1	---
Silver	ppm	● 0	<1	<1	---
Manganese	ppm	● <1	● <1	● 1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

Calcium	ppm	● 3161	● 881	● 1314	---
Magnesium	ppm	● 148	● 1026	● 970	---
Zinc	ppm	● 1123	● 1129	● 913	---
Phosphorus	ppm	● 964	● 940	● 750	---
Barium	ppm	● 0	● 5	● 40	---
Boron	ppm	● 127	● 65	● 86	---

#### Diagnosis

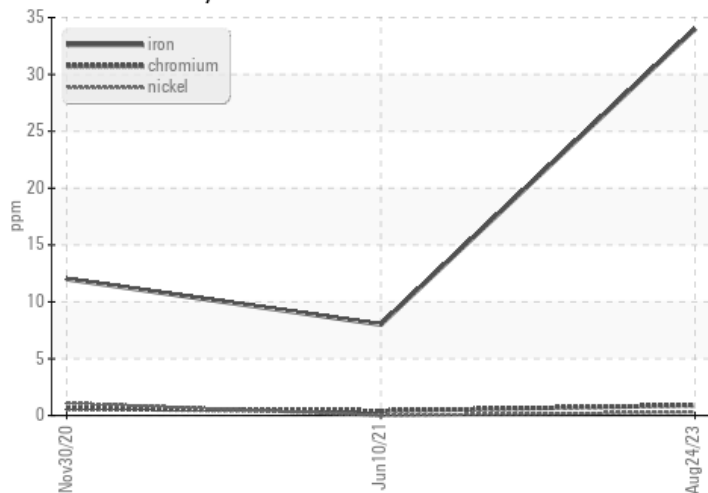
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: RECBRLH  
 Unique No: 10630124  
 Signed: Don Baldrige  
 Report Date: 01 Sep 2023

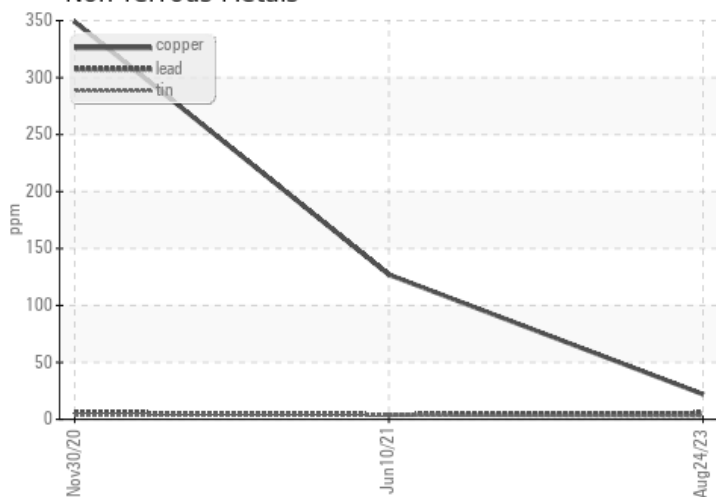


### GRAPHS

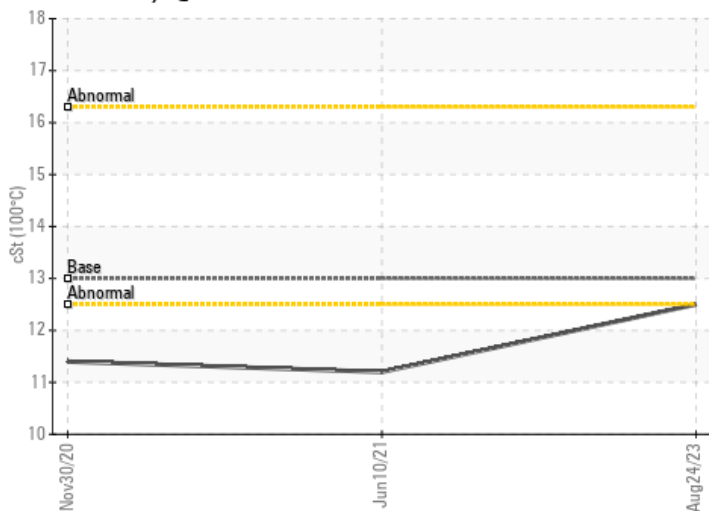
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

