

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH22M 081593-1197 - Diesel Engine

Sample No: LH0243835

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH



**BAY DISPOSAL**  
 2224 SPRINGFIELD AVE  
 NORFOLK, VA  
 US 23523  
 Contact: SERVICE MANAGER

T:  
 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.



#### SAMPLE INFORMATION

Sample Number	LH0243835	LH0243913	---	---
Sample Date	03 Jun 2023	21 Jan 2023	---	---
Machine Hours	14541	13475	---	---
Oil Hours	2000	250	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---



#### OIL CONDITION

Visc @ 100°C	cSt	13.6	13.6	---	---
Base Number (BN)	mg KOH/g	9.4	9.9	---	---
Oxidation (PA)	%	73	70	---	---



#### CONTAMINATION

Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	68	70	---	---
Sulfation (PA)	%	53	50	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	2	<1	---	---
Potassium	ppm	2	2	---	---



#### WEAR METALS

Iron	ppm	4	3	---	---
Copper	ppm	<1	0	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	<1	2	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	9	<1	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	<1	---	---



#### ADDITIVES

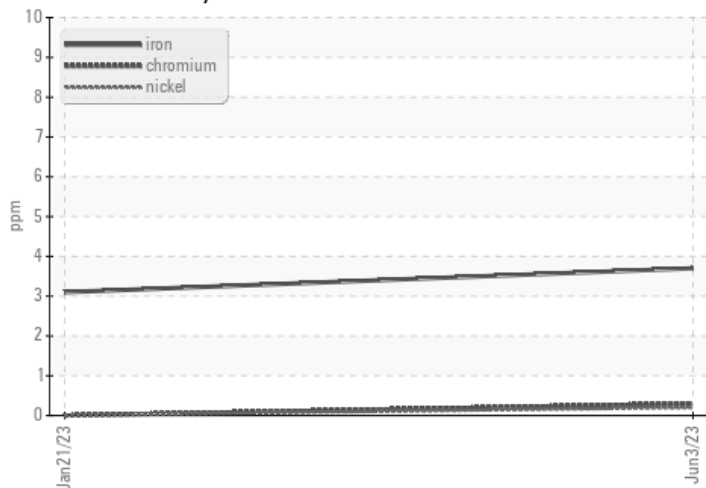
Calcium	ppm	1366	1394	---	---
Magnesium	ppm	787	822	---	---
Zinc	ppm	956	941	---	---
Phosphorus	ppm	827	772	---	---
Barium	ppm	0	0	---	---
Boron	ppm	189	173	---	---

Depot: BAYNOR  
 Unique No: 10548601  
 Signed: Wes Davis  
 Report Date: 10 Jul 2023

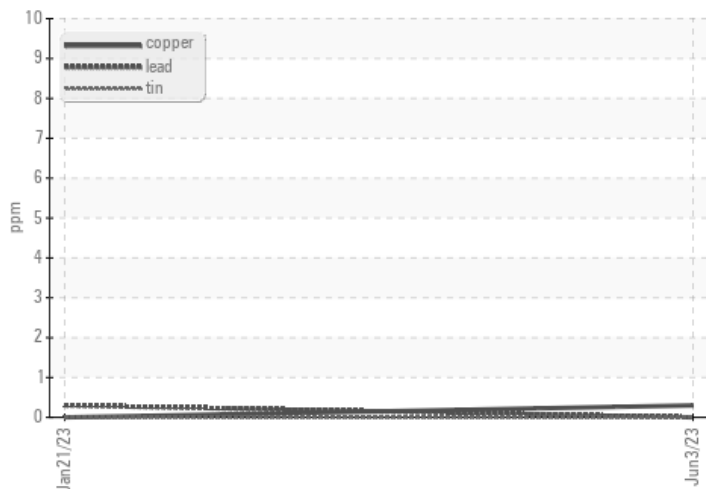


### GRAPHS

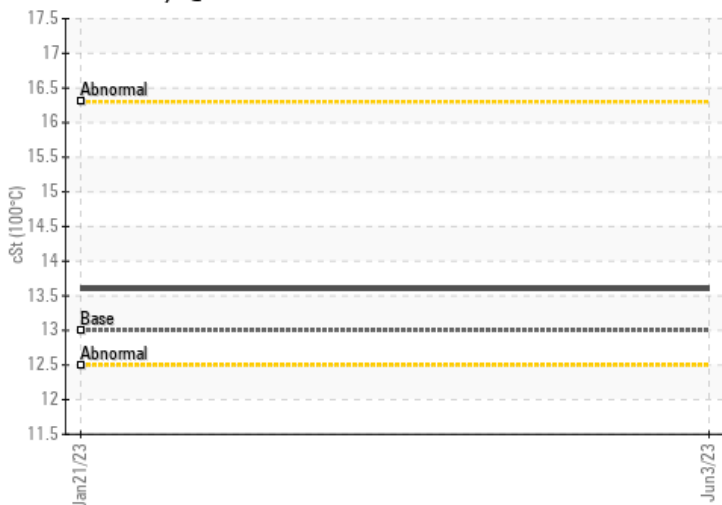
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

