

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LTM1070-4.2 060759 - Diesel Engine

Sample No: LH0259059

Oil Type: LIEBHERR MOTOROIL 10W-40



#### SAMPLE INFORMATION

Sample Number	LH0259059	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES  
 4100 CHESTNUT AVENUE  
 NEWPORT NEWS, VA  
 US 23607  
 Contact: TERENCE VANDERLENDE  
 TERENCE.VANDERLENDE@LIEBHERR.COM  
 T:  
 F:



#### OIL CONDITION

Visc @ 100°C	cSt	10.0	---	---	---
Base Number (BN)	mg KOH/g	6.1	---	---	---
Oxidation (PA)	%	92	---	---	---



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	74	---	---	---
Sulfation (PA)	%	68	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	1.9	---	---	---
Silicon	ppm	10	---	---	---
Sodium	ppm	5	---	---	---
Potassium	ppm	4	---	---	---

#### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



#### WEAR METALS

Iron	ppm	10	---	---	---
Copper	ppm	10	---	---	---
Lead	ppm	5	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	3	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	33	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

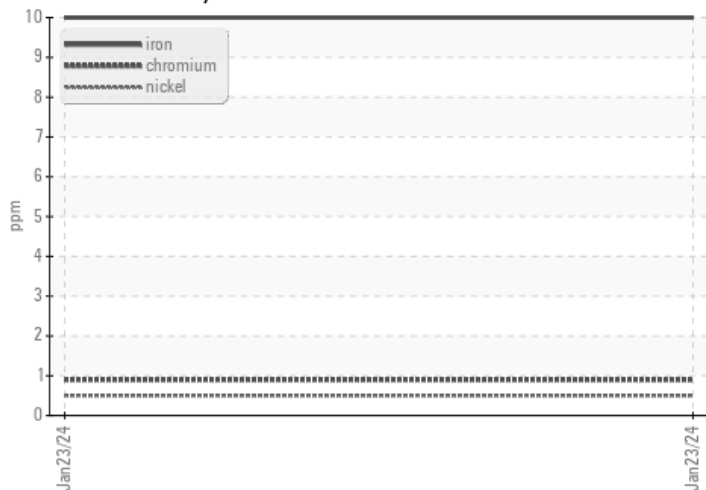
Calcium	ppm	2308	---	---	---
Magnesium	ppm	319	---	---	---
Zinc	ppm	815	---	---	---
Phosphorus	ppm	668	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	92	---	---	---

Depot: LIENEW  
 Unique No: 10847673  
 Signed: Don Baldrige  
 Report Date: 29 Jan 2024

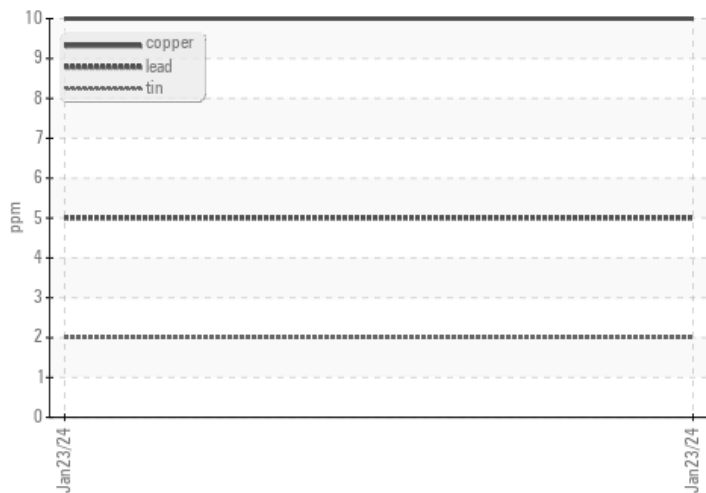


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 100°C



#### Base Number

