

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH40M 137 231 - Diesel Engine

Sample No: LH0268829

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0268829	---	---	---
Sample Date	23 Jan 2024	---	---	---
Machine Hours	3350	---	---	---
Oil Hours	500	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

#### UNITED SCRAP

1545 S CICERO AVE  
BURR RIDGE, IL  
US 60527

Contact: Service Manager



#### OIL CONDITION

Visc @ 100°C	cSt	13.4	---	---	---
Base Number (BN)	mg KOH/g	5.7	---	---	---
Oxidation (PA)	%	70	---	---	---

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.



#### CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.2	---	---	---
Nitration (PA)	%	88	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	9	---	---	---
Sodium	ppm	0	---	---	---
Potassium	ppm	5	---	---	---



#### WEAR METALS

Iron	ppm	5	---	---	---
Copper	ppm	2	---	---	---
Lead	ppm	1	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	1	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	11	---	---	---
Nickel	ppm	<1	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	<1	---	---	---



#### ADDITIVES

Calcium	ppm	1284	---	---	---
Magnesium	ppm	645	---	---	---
Zinc	ppm	807	---	---	---
Phosphorus	ppm	771	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	46	---	---	---

Depot: UNIBURIL

Unique No: 10883726

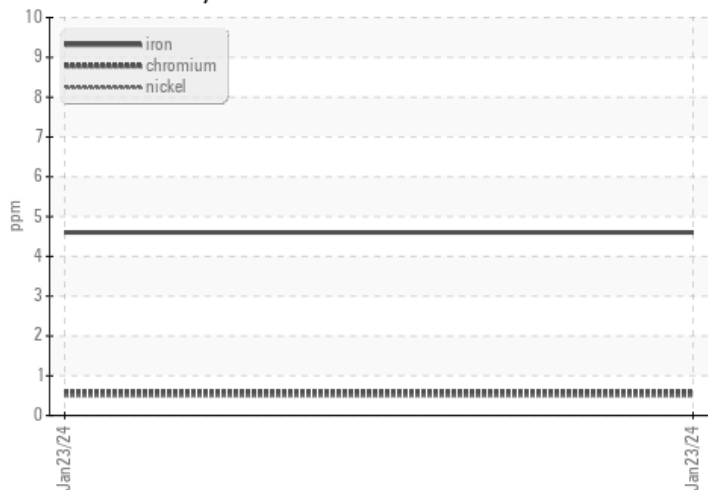
Signed: Jonathan Hester

Report Date: 19 Feb 2024

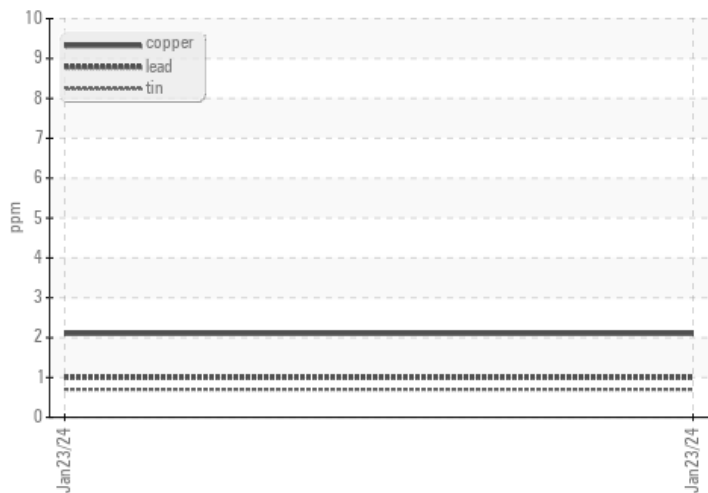


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

