

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LTM1130-5.1066718 - Diesel Engine

Sample No: LH0259101

Oil Type: DIESEL ENGINE OIL SAE 15W30



#### SAMPLE INFORMATION

Sample Number	LH0259101	LH0259096	---	---
Sample Date	15 Feb 2024	14 Feb 2024	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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	11.7	11.9	---	---
Base Number (BN)	mg KOH/g	7.0	7.5	---	---
Oxidation (PA)	%	66	62	---	---



#### CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	73	70	---	---
Sulfation (PA)	%	54	53	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	11	7	---	---
Sodium	ppm	1	2	---	---
Potassium	ppm	2	<1	---	---

#### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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.



#### WEAR METALS

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



#### ADDITIVES

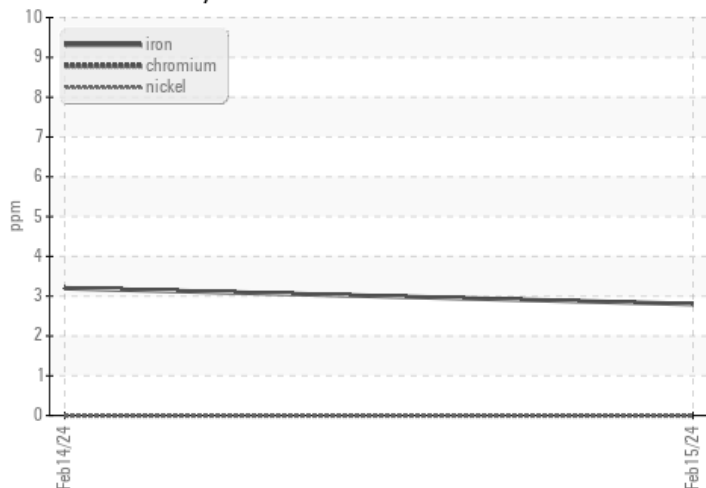
Calcium	ppm	1265	1347	---	---
Magnesium	ppm	745	751	---	---
Zinc	ppm	814	809	---	---
Phosphorus	ppm	703	728	---	---
Barium	ppm	0	0	---	---
Boron	ppm	152	145	---	---

Depot: LIENEW  
 Unique No: 10886315  
 Signed: Wes Davis  
 Report Date: 20 Feb 2024

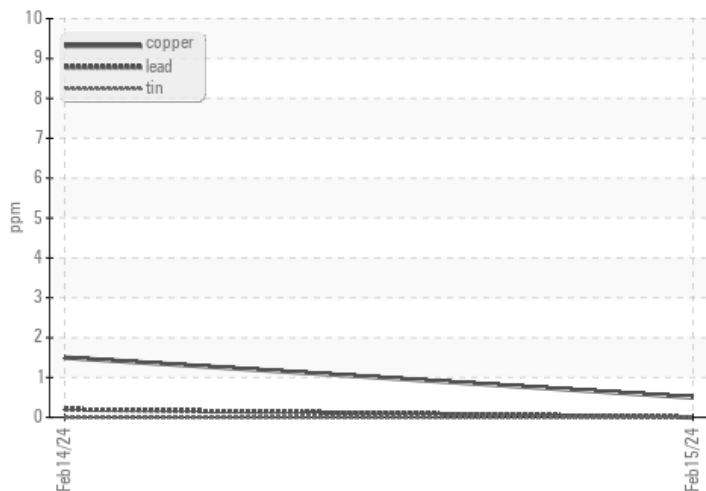


### GRAPHS

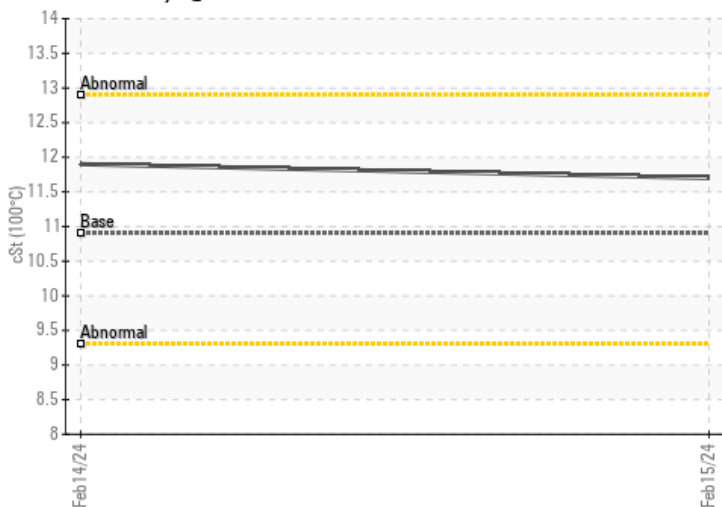
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 100°C



#### Base Number

