LIEBHERR
CONSTRUCTION EQUIPMENT

LIEBHERR LH40M 118823-1215 - Diesel Engine

Sample No: LH0243912

Oil Type: DIESEL ENGINE OIL SAE 5W30

LIEBHERR EQUIPMENT SOURCE
4100 CHESTNUT AVENUE
NEWPORT NEWS, VA
US 23607
Contact: LUKE APPLEBY
Lucas.Appleby@liebherr.com
T:
F: (757)298-8700

SAMPLE INFORMATION

Sample Number		**LH0243912**	---	---	---
Sample Date		**27 Feb 2024**	---	---	---
Machine Hours		**5666**	---	---	---
Oil Hours		**0**	---	---	---
Oil Changed		**Changed**	---	---	---
Sample Status		**NORMAL**	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	**11.3**	---	---	---
Base Number (BN)	mg KOH/g	**10.3**	---	---	---
Oxidation (PA)	%	**69**	---	---	---

CONTAMINATION

Water	%	**NEG**	---	---	---
Soot %	%	**0.1**	---	---	---
Nitration (PA)	%	**137**	---	---	---
Sulfation (PA)	%	**58**	---	---	---
Glycol	%	**NEG**	---	---	---
Fuel	%	**<1.0**	---	---	---
Silicon	ppm	**8**	---	---	---
Sodium	ppm	**3**	---	---	---
Potassium	ppm	**0**	---	---	---

WEAR METALS

Iron	ppm	**18**	---	---	---
Copper	ppm	**5**	---	---	---
Lead	ppm	**0**	---	---	---
Tin	ppm	**<1**	---	---	---
Aluminum	ppm	**3**	---	---	---
Chromium	ppm	**<1**	---	---	---
Molybdenum	ppm	**0**	---	---	---
Nickel	ppm	**0**	---	---	---
Titanium	ppm	**0**	---	---	---
Silver	ppm	**0**	---	---	---
Manganese	ppm	**<1**	---	---	---
Vanadium	ppm	**<1**	---	---	---

ADDITIVES

Calcium	ppm	**4308**	---	---	---
Magnesium	ppm	**40**	---	---	---
Zinc	ppm	**1137**	---	---	---
Phosphorus	ppm	**972**	---	---	---
Barium	ppm	**0**	---	---	---
Boron	ppm	**226**	---	---	---

Diagnosis

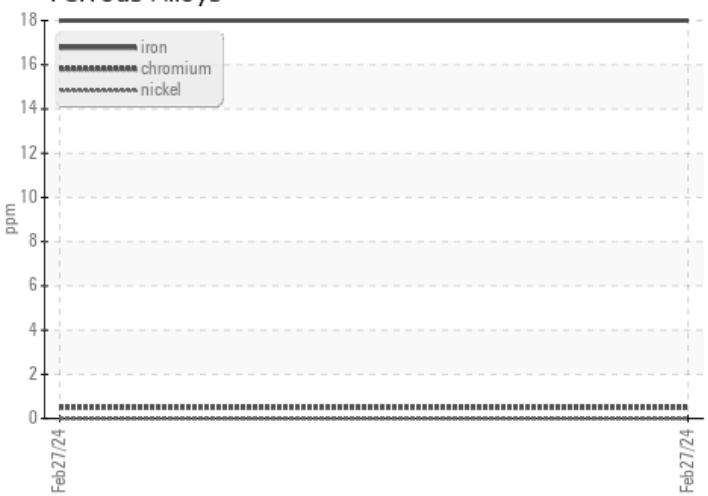
Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: LIEBHERRUS
Unique No: 10915367
Signed: Wes Davis
Report Date: 08 Mar 2024

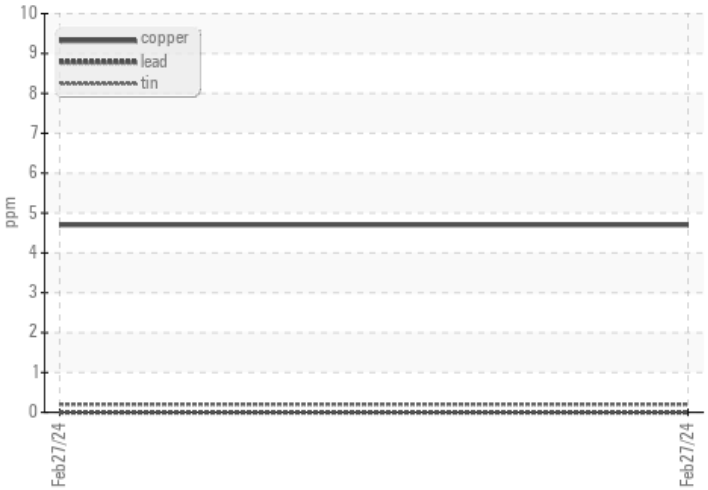
LIEBHERR
CONSTRUCTION EQUIPMENT

GRAPHS

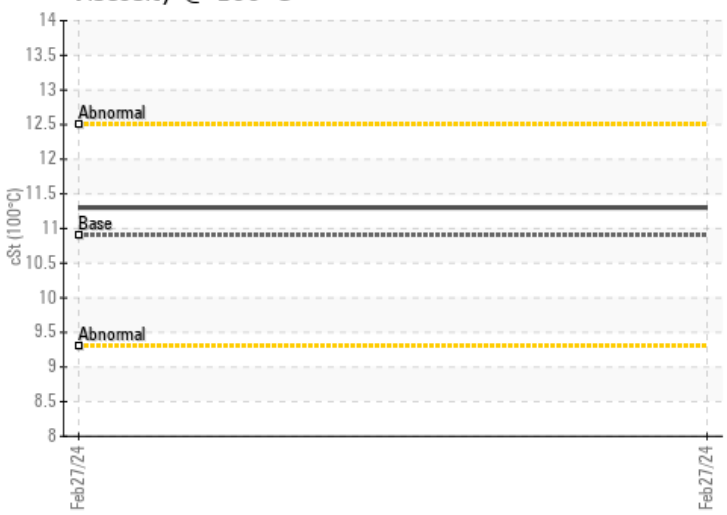
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number