

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R924 053580-1487 - Diesel Engine

Sample No: LH0268707

Oil Type: LIEBHERR MOTOROIL 5W-30 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0268707	---	---	---
Sample Date	06 Feb 2024	---	---	---
Machine Hours	987	---	---	---
Oil Hours	987	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: Timothy Bailey
 timothy.bailey@liebherr.com
 T:
 F: (919)329-0084



OIL CONDITION

Visc @ 100°C	cSt	12.5	---	---	---
Base Number (BN)	mg KOH/g	4.5	---	---	---
Oxidation (PA)	%	174	---	---	---



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.1	---	---	---
Nitration (PA)	%	111	---	---	---
Sulfation (PA)	%	97	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	50	---	---	---
Sodium	ppm	10	---	---	---
Potassium	ppm	3	---	---	---

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.



WEAR METALS

Iron	ppm	68	---	---	---
Copper	ppm	64	---	---	---
Lead	ppm	2	---	---	---
Tin	ppm	<1	---	---	---
Aluminum	ppm	6	---	---	---
Chromium	ppm	2	---	---	---
Molybdenum	ppm	41	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

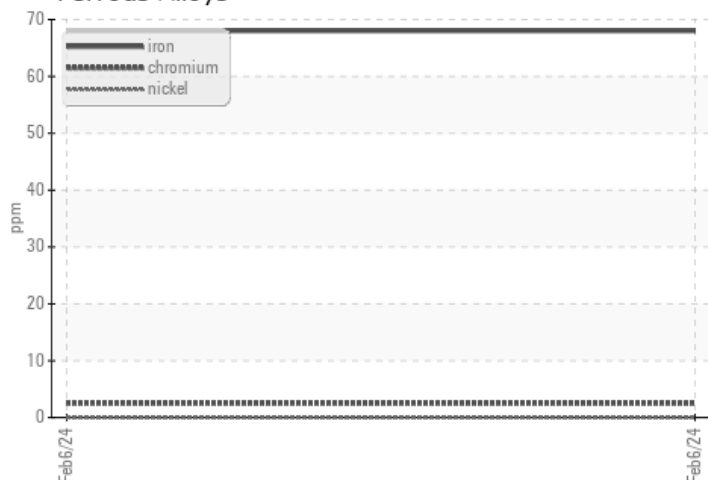
Calcium	ppm	1769	---	---	---
Magnesium	ppm	747	---	---	---
Zinc	ppm	1063	---	---	---
Phosphorus	ppm	811	---	---	---
Barium	ppm	3	---	---	---
Boron	ppm	72	---	---	---

Depot: LIEBHERRNC
 Unique No: 10869744
 Signed: Jonathan Hester
 Report Date: 09 Feb 2024

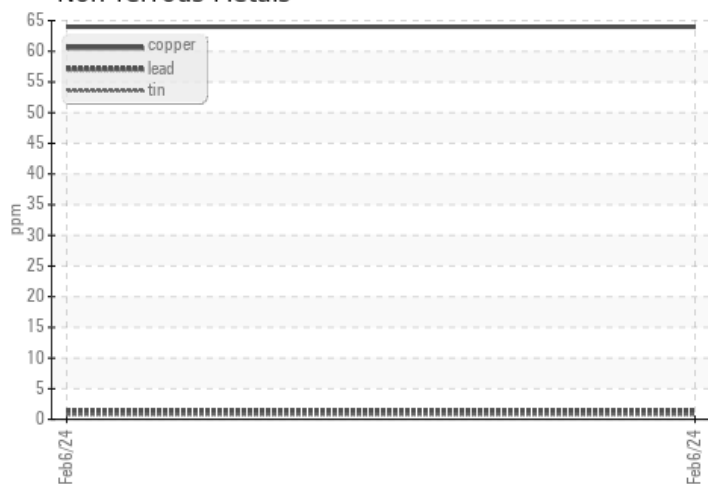


GRAPHS

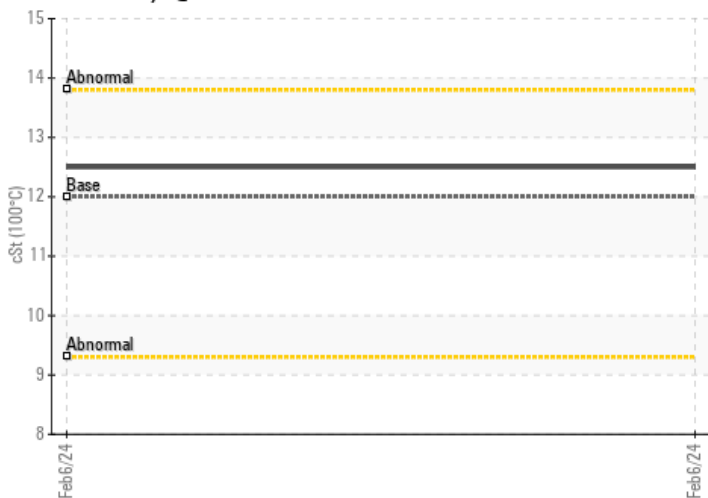
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

