

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L526 068228-1753 - Diesel Engine

Sample No: LH0268750

Oil Type: LIEBHERR MOTOROIL 10W-40 LOW ASH



SAMPLE INFORMATION

Sample Number	LH0268750	---	---	---
Sample Date	14 Mar 2024	---	---	---
Machine Hours	705	---	---	---
Oil Hours	705	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

LIEBHERR EQUIPMENT SOURCE

8200 FAYETTEVILLE ROAD
 RALEIGH, NC
 US 27603
 Contact: TAYLOR BLALOCK
 taylor.blalock@liebherr.com
 T: (757)718-0491
 F: (919)329-0084



OIL CONDITION

Visc @ 100°C	cSt	10.9	---	---	---
Base Number (BN)	mg KOH/g	8.0	---	---	---
Oxidation (PA)	%	78	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. Sodium and/or potassium levels are high. Fuel content negligible. Test for glycol is negative. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	0.4	---	---	---
Nitration (PA)	%	89	---	---	---
Sulfation (PA)	%	66	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	0.4	---	---	---
Silicon	ppm	28	---	---	---
Sodium	ppm	266	---	---	---
Potassium	ppm	6	---	---	---



WEAR METALS

Iron	ppm	41	---	---	---
Copper	ppm	143	---	---	---
Lead	ppm	33	---	---	---
Tin	ppm	2	---	---	---
Aluminum	ppm	8	---	---	---
Chromium	ppm	<1	---	---	---
Molybdenum	ppm	222	---	---	---
Nickel	ppm	0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

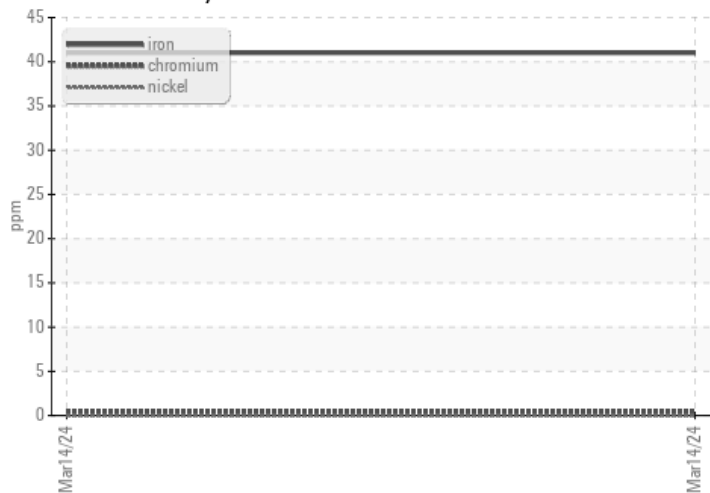
Calcium	ppm	1383	---	---	---
Magnesium	ppm	726	---	---	---
Zinc	ppm	1038	---	---	---
Phosphorus	ppm	877	---	---	---
Barium	ppm	1	---	---	---
Boron	ppm	100	---	---	---

Depot: LIEBHERRNC
 Unique No: 10928278
 Signed: Jonathan Hester
 Report Date: 20 Mar 2024

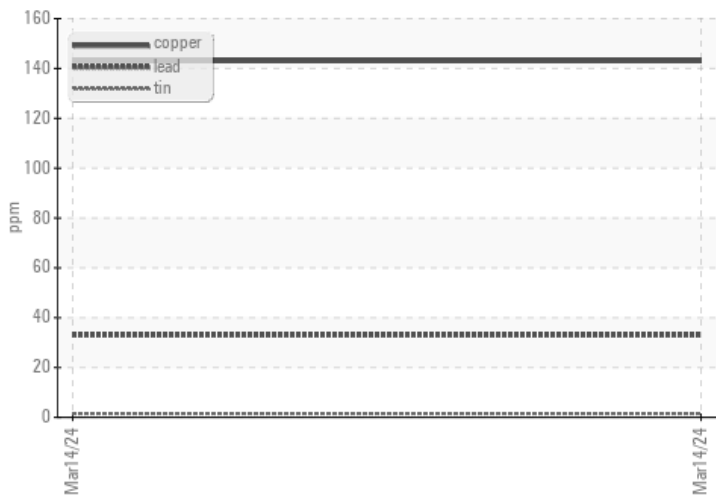


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

