

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A918 110890-1184 - Diesel Engine

Sample No: LH0268801

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0268801	LHMC130935	---	---
Sample Date	18 Jan 2024	16 Sep 2023	---	---
Machine Hours	5772	3968	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

UNITED SCRAP

1545 S CICERO AVE
CHICAGO, IL
US 60804
Contact:



OIL CONDITION

Visc @ 100°C	cSt	14.2	13.0	---	---
Base Number (BN)	mg KOH/g	7.1	5.6	---	---
Oxidation (PA)	%	54	82	---	---

T:
F:



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.2	---	---
Nitration (PA)	%	67	87	---	---
Sulfation (PA)	%	52	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	23	---	---
Sodium	ppm	3	2	---	---
Potassium	ppm	4	7	---	---

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	1	31	---	---
Copper	ppm	2	27	---	---
Lead	ppm	<1	3	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	5	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	16	74	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

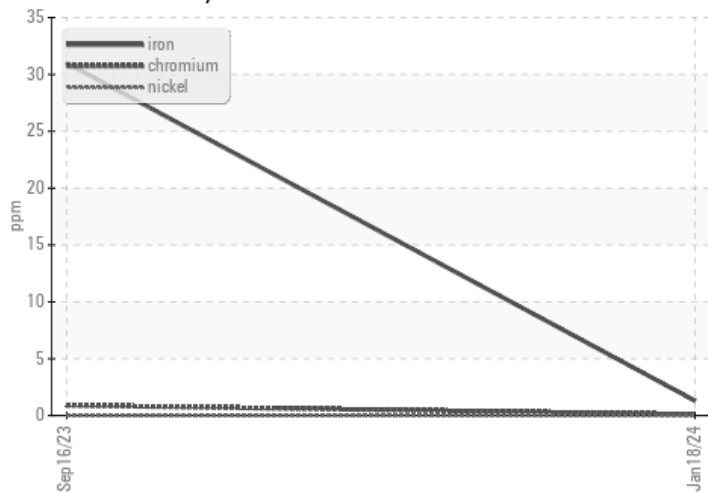
Calcium	ppm	1446	1481	---	---
Magnesium	ppm	708	643	---	---
Zinc	ppm	962	915	---	---
Phosphorus	ppm	815	736	---	---
Barium	ppm	0	0	---	---
Boron	ppm	151	69	---	---

Depot: UNICILH
Unique No: 10899048
Signed: Wes Davis
Report Date: 27 Feb 2024

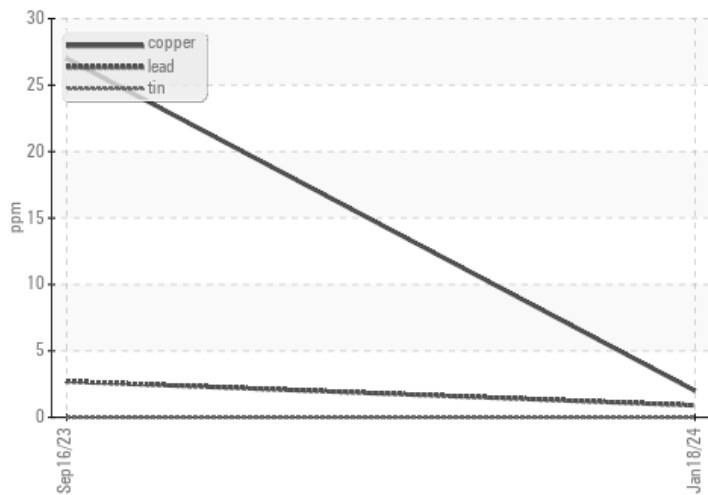


GRAPHS

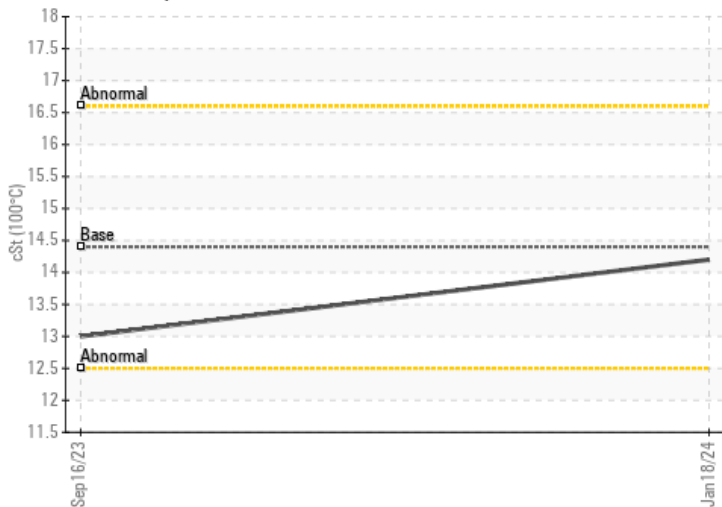
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

