

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 1484-54024 - Diesel Engine

Sample No: LH0243661

Oil Type: DIESEL ENGINE OIL SAE 5W40



SAMPLE INFORMATION

Sample Number	LH0243661	LH0236708	---	---
Sample Date	11 Jan 2024	12 Jan 2023	---	---
Machine Hours	6218	4080	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

ALTER

4400 SYCAMORE AVE

MADISON, WI

US 53714

Contact: Service Manager



OIL CONDITION

Visc @ 100°C	cSt	13.8	12.7	---	---
Base Number (BN)	mg KOH/g	7.7	6.5	---	---
Oxidation (PA)	%	52	61	---	---

T:

F:

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.



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	65	73	---	---
Sulfation (PA)	%	50	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	8	<1	---	---
Potassium	ppm	4	0	---	---



WEAR METALS

Iron	ppm	3	3	---	---
Copper	ppm	<1	3	---	---
Lead	ppm	0	0	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	4	4	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	82	59	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	2	<1	---	---



ADDITIVES

Calcium	ppm	1232	1280	---	---
Magnesium	ppm	708	619	---	---
Zinc	ppm	1144	949	---	---
Phosphorus	ppm	989	803	---	---
Barium	ppm	0	0	---	---
Boron	ppm	118	67	---	---

Depot: ALTMAD

Unique No: 10844240

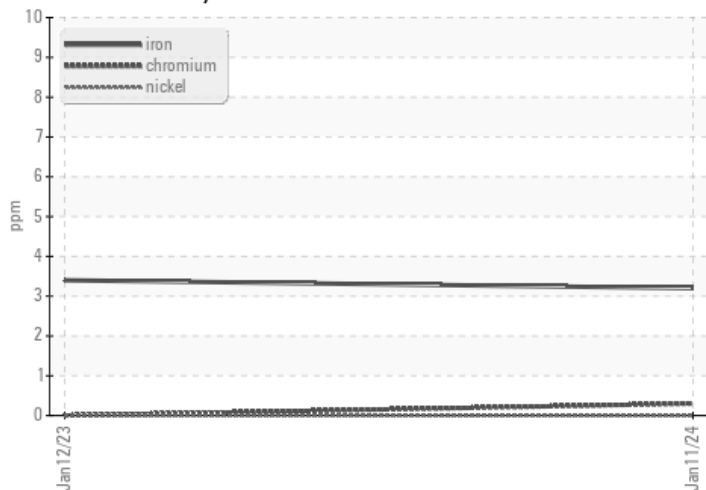
Signed: Wes Davis

Report Date: 23 Jan 2024

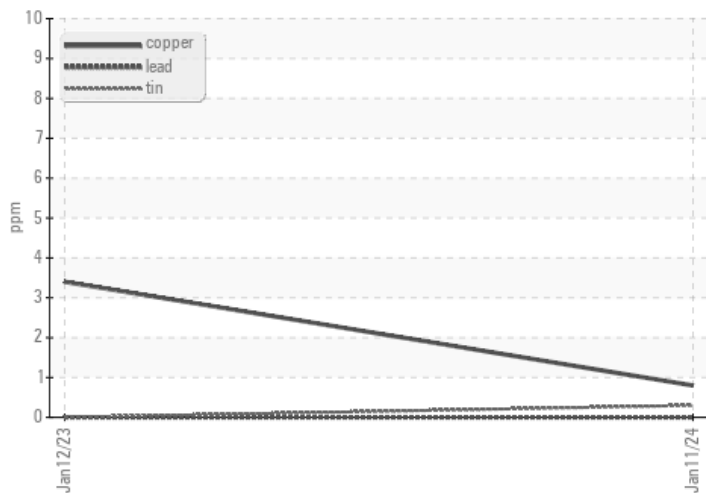


GRAPHS

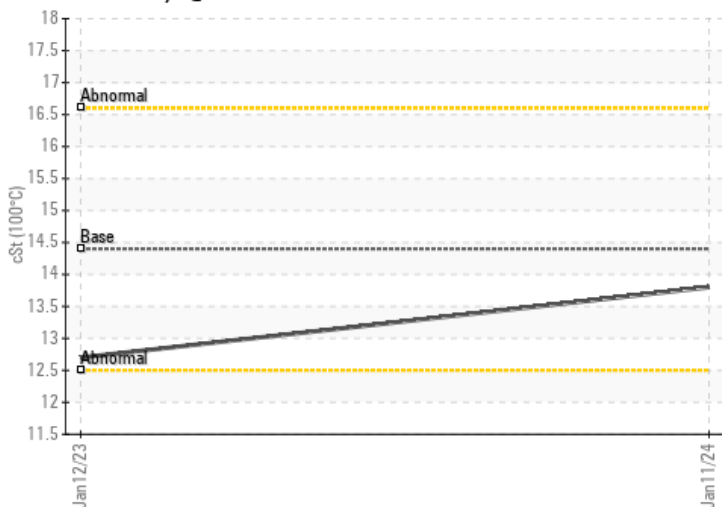
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 100°C



Base Number

