

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L566 1484-54024 - Hydraulic System

Sample No: LH0243658

Oil Type: CHEVRON RANDO HD 46



SAMPLE INFORMATION

Sample Number	LH0243658	LH0236703	---	---
Sample Date	11 Jan 2024	12 Jan 2023	---	---
Machine Hours	6218	4080	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

ALTER

4400 SYCAMORE AVE

MADISON, WI

US 53714

Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	● 45.0	● 43.7	---	---
Acid Number (AN)	mg KOH/g	● 0.23	● 0.75	---	---

T:

F:



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		● 26665	● 78705	---	---
Particles >6µm		● 439	● 5683	---	---
Particles >14µm		● 17	● 71	---	---
ISO 4406:1999 (c)		22/16/11	23/20/13	---	---
Silicon	ppm	● <1	● 2	---	---
Sodium	ppm	● 0	● 0	---	---
Potassium	ppm	● 1	● 2	---	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	● 5	● 25	---	---
Copper	ppm	● 1	● 6	---	---
Lead	ppm	● 1	● 4	---	---
Tin	ppm	● <1	● <1	---	---
Aluminum	ppm	● 2	● <1	---	---
Chromium	ppm	● 2	● 3	---	---
Molybdenum	ppm	● 1	● 1	---	---
Nickel	ppm	● <1	● 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	● <1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	● 74	● 931	---	---
Magnesium	ppm	● 6	● 13	---	---
Zinc	ppm	● 409	● 618	---	---
Phosphorus	ppm	● 351	● 480	---	---
Barium	ppm	● 0	● 0	---	---
Boron	ppm	● 0	● 0	---	---

Depot: ALTMAD

Unique No: 10844305

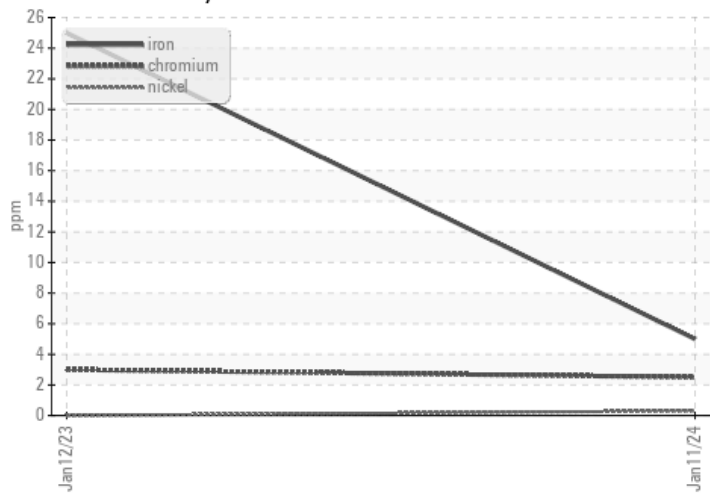
Signed: Wes Davis

Report Date: 23 Jan 2024

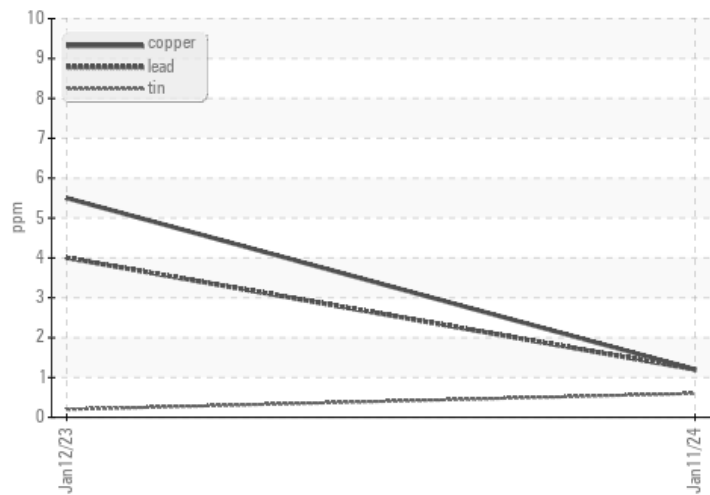


GRAPHS

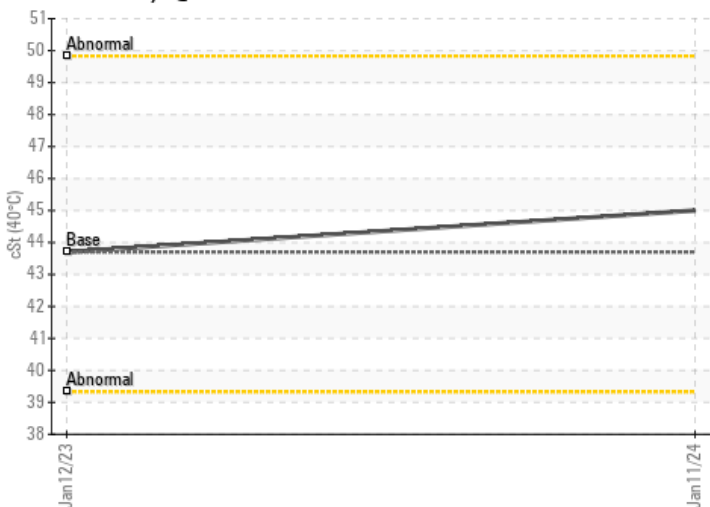
Ferrous Alloys



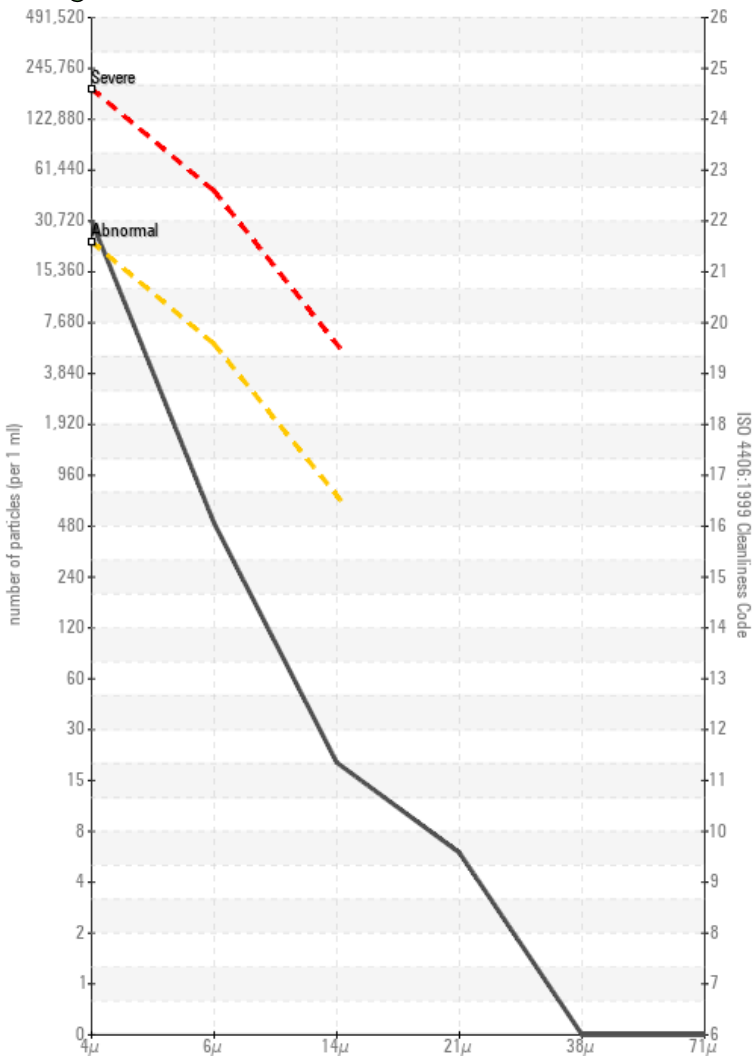
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

