

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR SW884ND 3W79-40260 - VALLEY CONSTRUCTION - Hydraulic System

Sample No: LH06131956

Oil Type: AW HYDRAULIC OIL ISO 46



Sample Information

Sample Number	LH06131956	---	---	---
Sample Date	04 Dec 2023	---	---	---
Machine Hours	592	---	---	---
Oil Hours	592	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

LIEBHERR MINING EQUIPMENT CO
 336 OSINO UNIT 12
 ELKO, NV
 US 89801
 Contact: TED PILZ
 ted.pilz@liebherr.com
 T: (775)388-0532
 F: (775)738-7432



Oil Condition

Visc @ 40°C	cSt	● 46.2	---	---	---
Acid Number (AN)	mg KOH/g	● 0.54	---	---	---



Contamination

Water	%	NEG	---	---	---
Particles >4µm		● 9869	---	---	---
Particles >6µm		● 2036	---	---	---
Particles >14µm		● 267	---	---	---
ISO 4406:1999 (c)		20/18/15	---	---	---
Silicon	ppm	● 8	---	---	---
Sodium	ppm	● <1	---	---	---
Potassium	ppm	● 4	---	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



Wear Metals

Iron	ppm	● 0	---	---	---
Copper	ppm	● <1	---	---	---
Lead	ppm	● 0	---	---	---
Tin	ppm	● <1	---	---	---
Aluminum	ppm	● 2	---	---	---
Chromium	ppm	● 0	---	---	---
Molybdenum	ppm	● <1	---	---	---
Nickel	ppm	● 2	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	● <1	---	---	---
Vanadium	ppm	<1	---	---	---



Additives

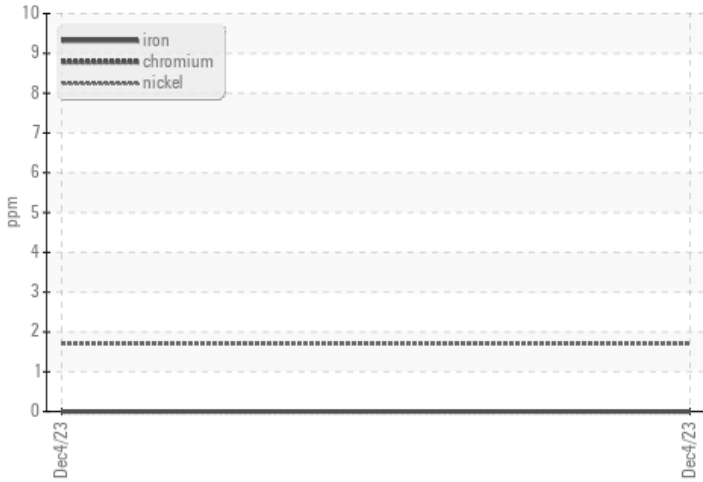
Calcium	ppm	● 12	---	---	---
Magnesium	ppm	● 9	---	---	---
Zinc	ppm	● 339	---	---	---
Phosphorus	ppm	● 153	---	---	---
Barium	ppm	● 0	---	---	---
Boron	ppm	● 0	---	---	---

Depot: LIEBHERRNV
Unique No: 10951421
Signed: Wes Davis
Report Date: 04 Apr 2024

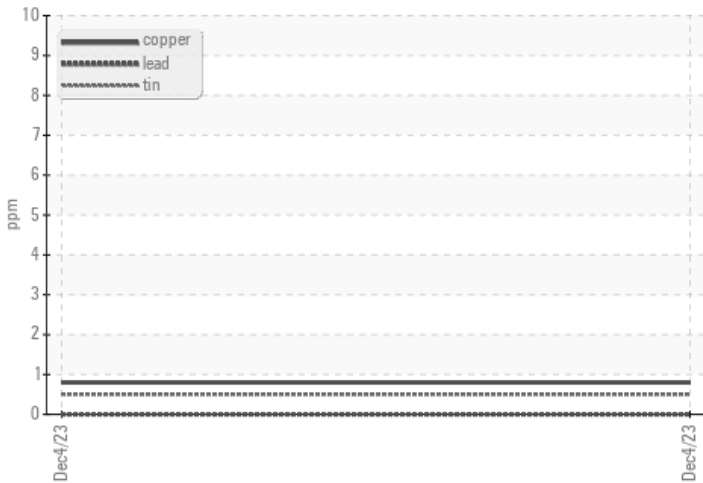


Graphs

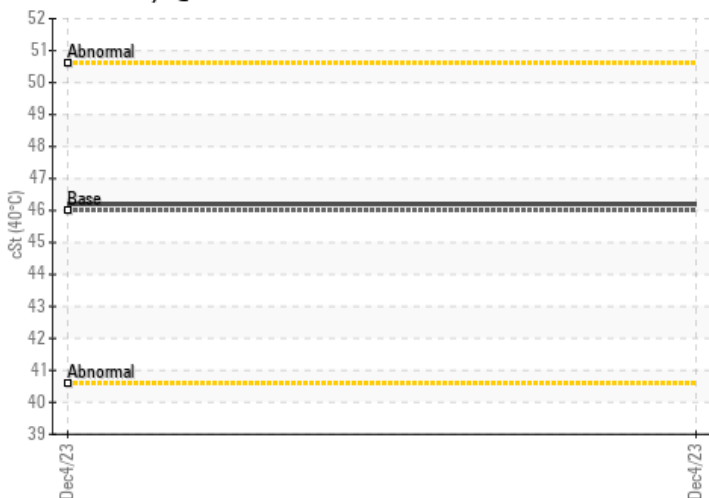
Ferrous Alloys



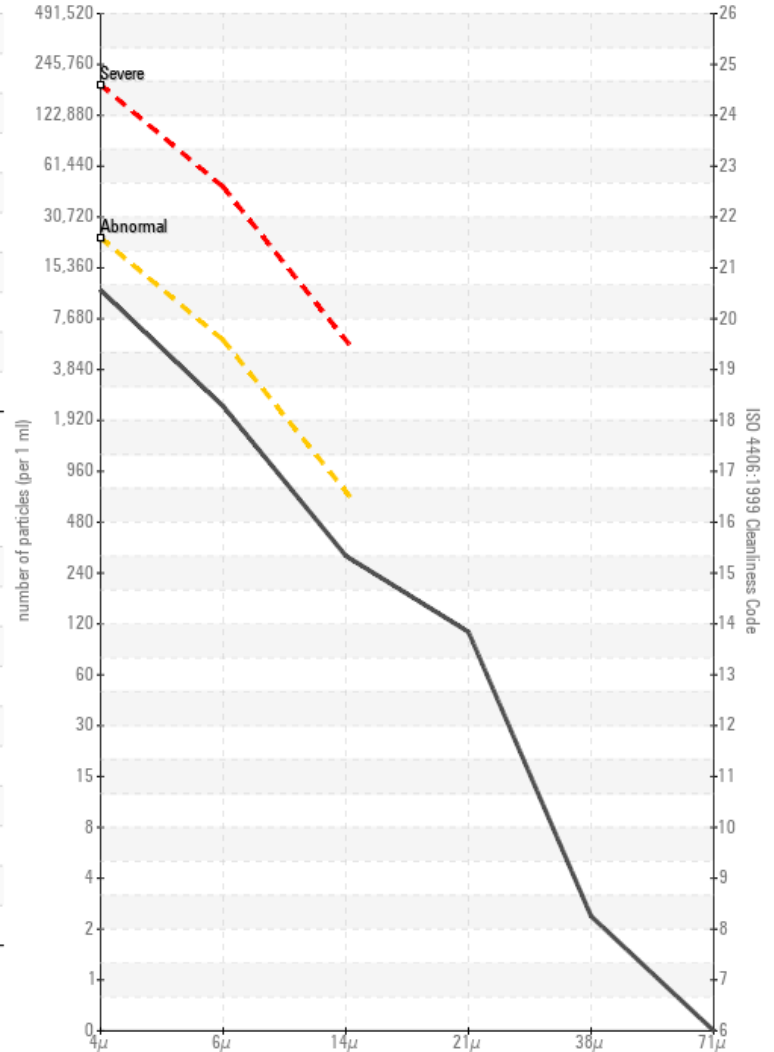
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

