

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 032994-461 - Hydraulic System

Sample No: LH0268488  
 Oil Type: CONOCO AW 68



#### SAMPLE INFORMATION

Sample Number	LH0268488	LH0264103	LH0220138	LH0217509
Sample Date	20 Dec 2023	06 Jul 2023	28 Feb 2023	20 Mar 2022
Machine Hours	5377	10350	9819	8007
Oil Hours	0	0	0	0
Oil Changed	N/A	Not Changd	Not Changd	Not Changd
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	ABNORMAL

**TT & E IRON**  
 1529 WEST GARNER RD  
 GARNER, NC  
 US 27529  
 Contact: MICHAEL STANCIL  
 culaterprowler@aol.com  
 T: (919)524-4326  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	50.8	54.1	55.1	62.4
Acid Number (AN)	mg KOH/g	0.53	0.55	0.55	0.46



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		31649	---	10197	5156
Particles >6µm		2804	---	601	399
Particles >14µm		20	---	8	8
ISO 4406:1999 (c)		22/19/11	---	21/16/10	20/16/10
Silicon	ppm	4	5	6	4
Sodium	ppm	0	2	2	3
Potassium	ppm	1	<1	0	0

**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	38	53	63	72
Copper	ppm	6	7	8	10
Lead	ppm	4	3	4	8
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	4	3	4
Chromium	ppm	2	2	2	2
Molybdenum	ppm	1	<1	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	1	1	1
Vanadium	ppm	<1	0	0	<1



#### ADDITIVES

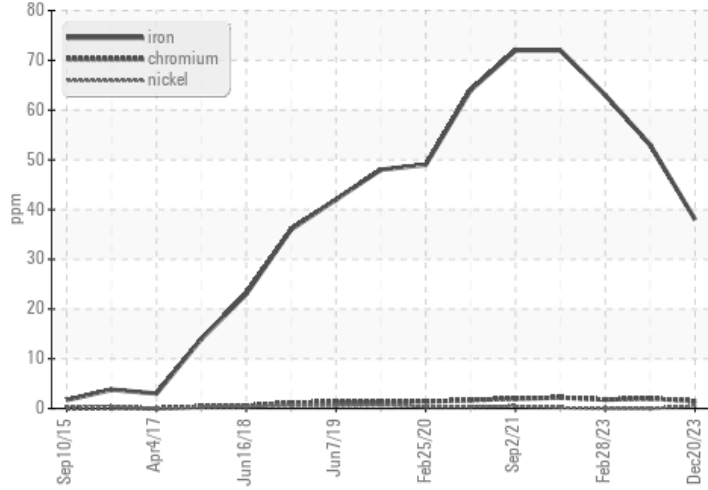
Calcium	ppm	442	691	658	1052
Magnesium	ppm	7	7	4	6
Zinc	ppm	395	432	339	453
Phosphorus	ppm	348	339	289	373
Barium	ppm	10	0	0	0
Boron	ppm	0	<1	<1	2

**Depot:** TTENEW  
**Unique No:** 10816743  
**Signed:** Wes Davis  
**Report Date:** 05 Jan 2024

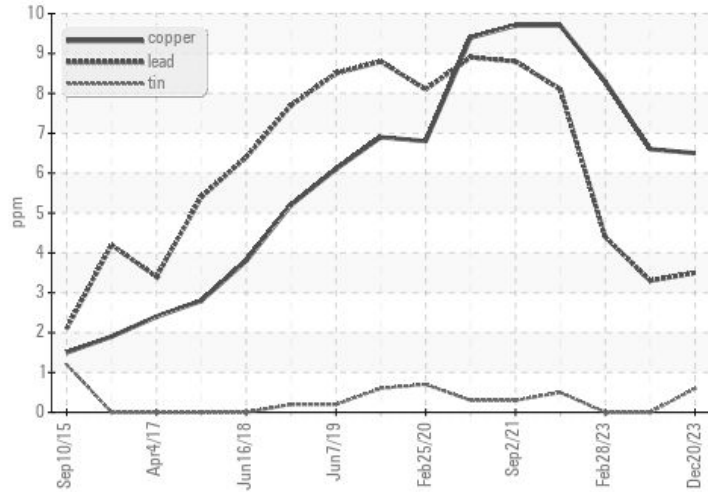


### GRAPHS

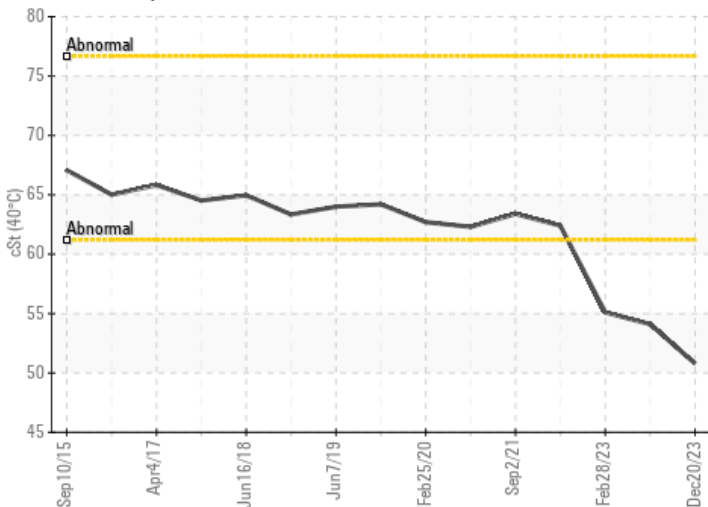
#### Ferrous Alloys



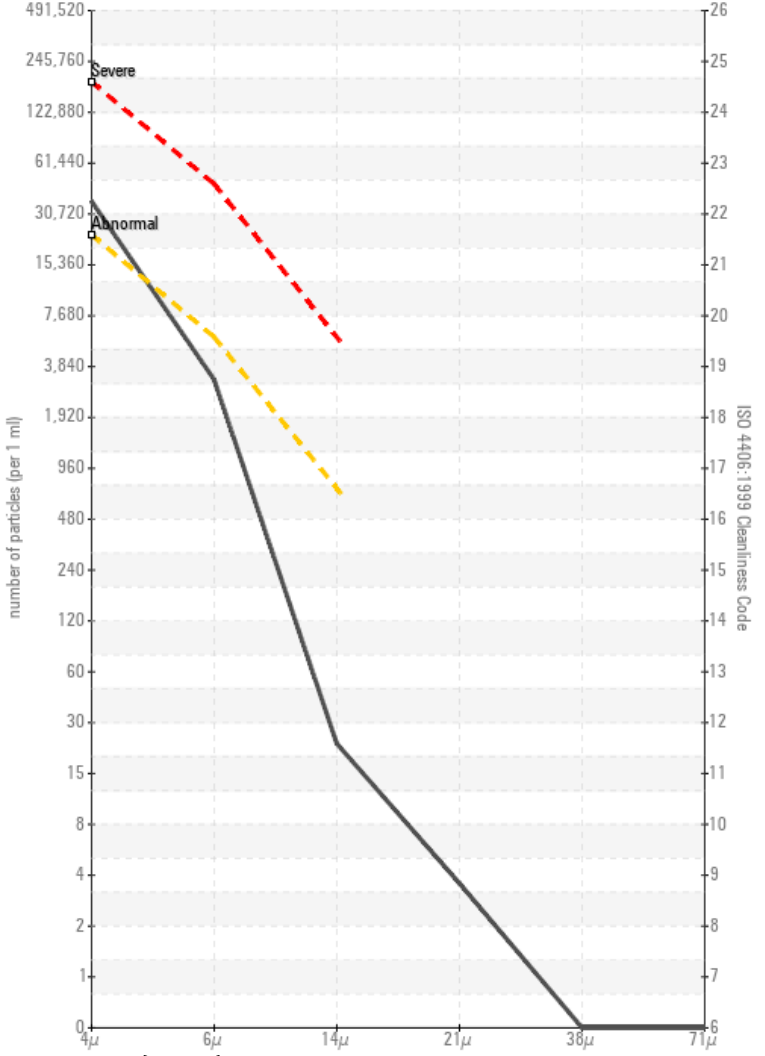
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

