

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 032994-461 - Hydraulic System

Sample No: LH0264103

Oil Type: LIEBHERR HYDRAULIC BASIC 68



#### SAMPLE INFORMATION

Sample Number	LH0264103	LH0220138	LH0217509	LH0204562
Sample Date	06 Jul 2023	28 Feb 2023	20 Mar 2022	02 Sep 2021
Machine Hours	10350	9819	8007	7102
Oil Hours	0	0	0	7102
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

#### TT & E IRON

1529 WEST GARNER RD  
GARNER, NC  
US 27529  
Contact: MICHAEL STANCIL  
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T: (919)524-4326  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	54.1	55.1	62.4	63.4
Acid Number (AN)	mg KOH/g	0.55	0.55	0.46	0.616



#### CONTAMINATION

Particles >4µm		---	10197	5156	1220
Particles >6µm		---	601	399	122
Particles >14µm		---	8	8	4
ISO 4406:1999 (c)		---	21/16/10	20/16/10	17/14/9
Silicon	ppm	5	6	4	4
Sodium	ppm	2	2	3	1
Potassium	ppm	<1	0	0	<1

#### Diagnosis

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to metal particles present in this sample. The iron level is abnormal. Moderate concentration of visible metal present. No other contaminants were detected in the oil. The AN level is acceptable for this fluid.



#### WEAR METALS

Iron	ppm	53	63	72	72
Copper	ppm	7	8	10	10
Lead	ppm	3	4	8	9
Tin	ppm	0	0	<1	<1
Aluminum	ppm	4	3	4	2
Chromium	ppm	2	2	2	2
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	<1	0
Manganese	ppm	1	1	1	1
Vanadium	ppm	0	0	<1	<1



#### ADDITIVES

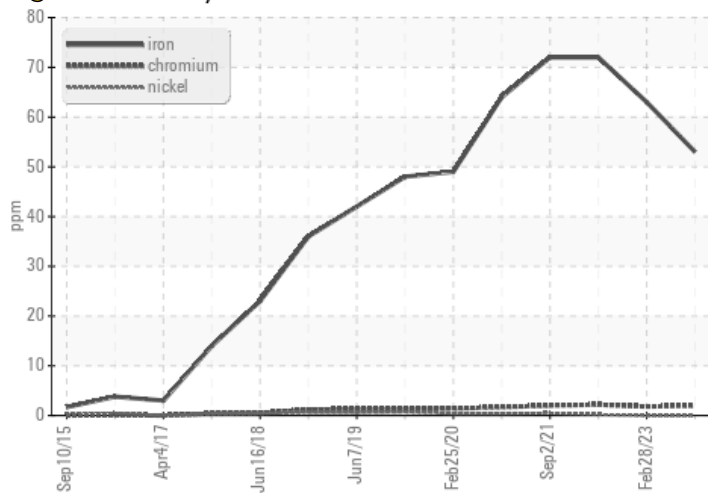
Calcium	ppm	691	658	1052	1090
Magnesium	ppm	7	4	6	5
Zinc	ppm	432	339	453	496
Phosphorus	ppm	339	289	373	354
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	2	1

Depot: TTENEW  
Unique No: 10561203  
Signed: Don Baldrige  
Report Date: 18 Jul 2023

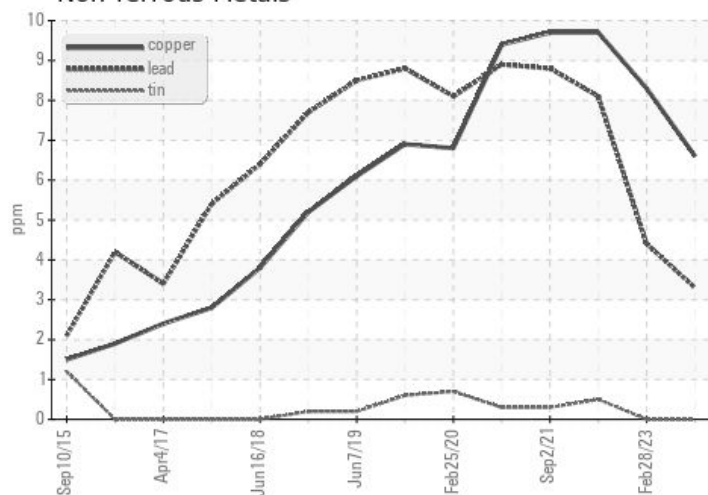


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Acid Number

