

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L586 048061-1334 - Front Differential

Sample No: LH0258025

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LH0258025</b>	LH0220144	LH0236177	LH0207477
Sample Date	<b>29 Jun 2023</b>	24 Feb 2023	14 Sep 2022	07 Mar 2022
Machine Hours	<b>6839</b>	5960	5320	4013
Oil Hours	<b>500</b>	1000	0	1200
Oil Changed	<b>Changed</b>	Changed	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

#### 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	● 185	● 172	● 172	● 188
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#### CONTAMINATION

Silicon	ppm	● 3	● 3	● 2	● 7
Sodium	ppm	● 0	● 3	● 2	● 5
Potassium	ppm	● 1	● 0	● 0	● 0

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



#### WEAR METALS

Iron	ppm	● 42	● 70	● 52	● 145
Copper	ppm	● 49	● 90	● 89	● 134
Lead	ppm	● 0	● 0	● <1	● 3
Tin	ppm	● <1	● <1	● 1	● 3
Aluminum	ppm	● 0	● <1	● <1	● 1
Chromium	ppm	● <1	● <1	● <1	● 1
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● 0	● <1	● <1
Titanium	ppm	● 0	● 0	● 0	● 0
Silver	ppm	● 0	● 0	● <1	● 0
Manganese	ppm	● 9	● 14	● 13	● 42
Vanadium	ppm	● 0	● 0	● 0	● 0



#### ADDITIVES

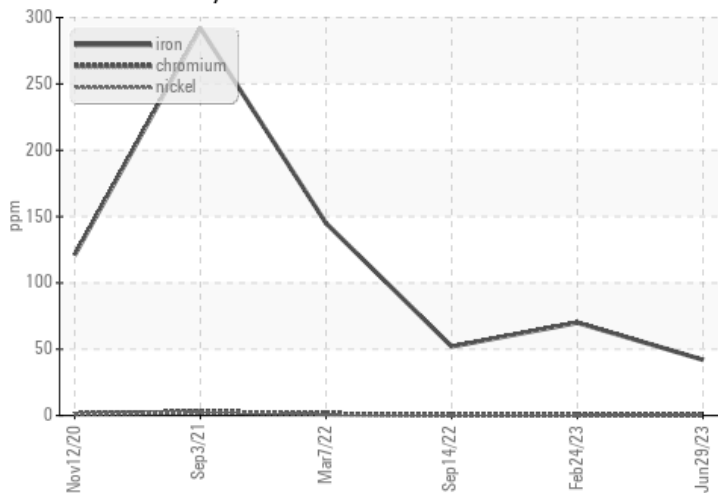
Calcium	ppm	● 13	● 25	● 27	● 11
Magnesium	ppm	● 0	● 0	● 0	● 0
Zinc	ppm	● 52	● 82	● 68	● 64
Phosphorus	ppm	● 2316	● 2252	● 2231	● 2459
Barium	ppm	● 0	● 0	● 0	● 0
Boron	ppm	● <1	● 0	● 4	● <1

Depot: TTENEW  
Unique No: 10561699  
Signed: Don Baldrige  
Report Date: 19 Jul 2023

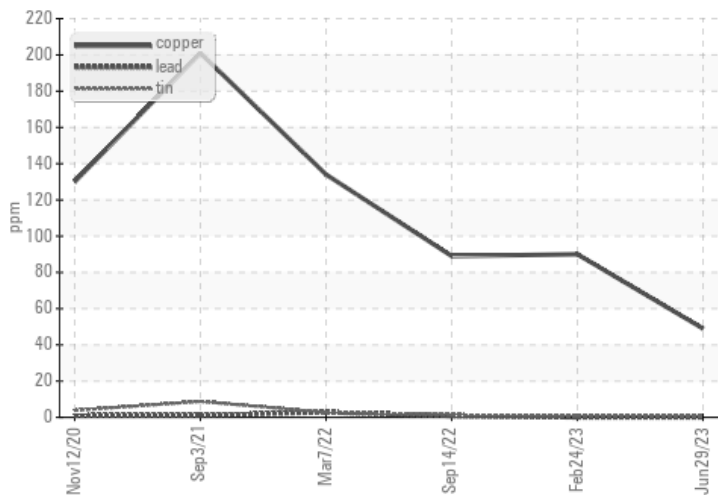


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

