

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 1484-47380 - Rear Differential

Sample No: LH0258550

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0258550	LHMC155699	LHMC155656	LHMC142656
Sample Date	03 Feb 2024	30 Aug 2020	15 Jan 2020	19 Sep 2019
Machine Hours	4983	4983	3815	2890
Oil Hours	1000	1000	1000	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

**BOSTON FREIGHTLINER**  
 2000 MAIN ST  
 BROCKTON, MA  
 US 02301  
 Contact: BILL RICHARDSON  
 BRICHARDSON@BOSTONFTL.COM  
 T: (781)389-8055  
 F:



#### OIL CONDITION

Visc @ 40°C	cSt	196	192	192	199
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#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	5	2	2	4
Sodium	ppm	6	1	3	3
Potassium	ppm	1	<1	11	3



#### WEAR METALS

Iron	ppm	1087	46	99	189
Copper	ppm	74	9	16	48
Lead	ppm	1	<1	0	0
Tin	ppm	2	<1	0	0
Aluminum	ppm	1	0	<1	1
Chromium	ppm	6	<1	<1	1
Molybdenum	ppm	15	2	3	5
Nickel	ppm	1	0	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	14	1	4	8
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	28	6	17	28
Magnesium	ppm	3	1	<1	2
Zinc	ppm	41	9	18	27
Phosphorus	ppm	2338	2241	1891	1974
Barium	ppm	0	0	0	<1
Boron	ppm	<1	7	<1	2

#### Diagnosis

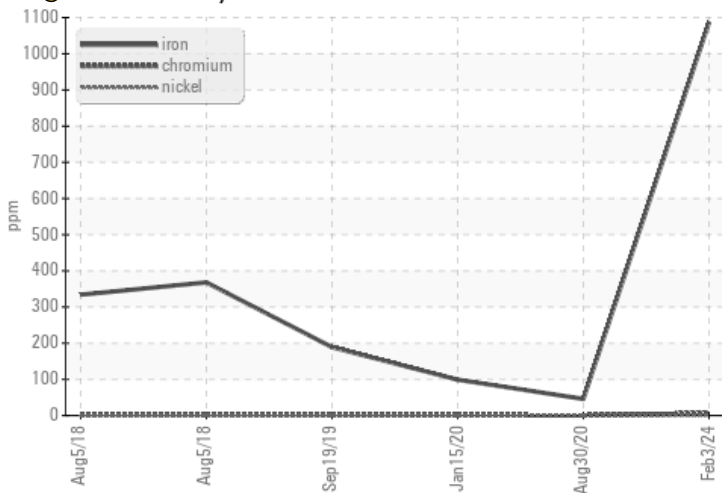
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: BOSBRO  
 Unique No: 10884075  
 Signed: Don Baldrige  
 Report Date: 18 Feb 2024

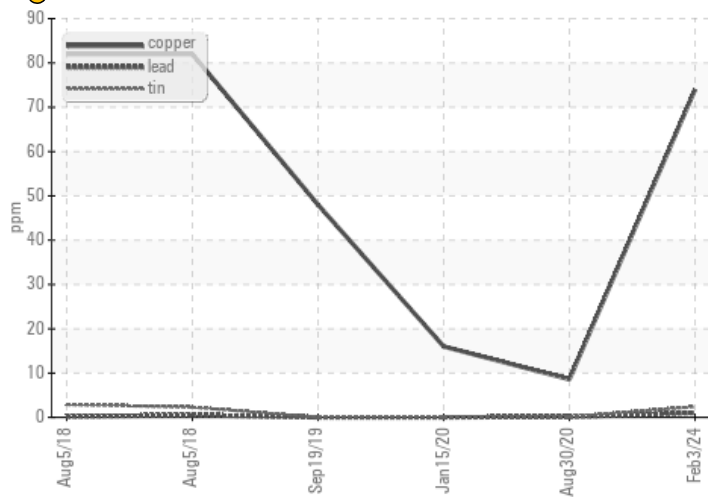


### GRAPHS

#### ● Ferrous Alloys



#### ● Non-ferrous Metals



#### Viscosity @ 40°C

