

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH60M 1204-91655 - Splitter Box

Sample No: LH0243885

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	<b>LH0243885</b>	LH0220404	LHMC121232	LHMC76659
Sample Date	<b>22 Feb 2024</b>	04 Oct 2022	08 Mar 2018	10 Nov 2017
Machine Hours	<b>17102</b>	14908	2994	2025
Oil Hours	<b>0</b>	1000	1000	1000
Oil Changed	<b>Changed</b>	Not Changd	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	SEVERE	NORMAL

#### LIEBHERR EQUIPMENT SOURCE

4100 CHESTNUT AVENUE  
NEWPORT NEWS, VA  
US 23607

Contact: LUKE APPLEBY  
Lucas.Appleby@liebherr.com  
T:  
F: (757)298-8700



#### OIL CONDITION

Visc @ 40°C	cSt	● 151	● 158	● 115.4	● 191.0
-------------	-----	-------	-------	---------	---------



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● 6	● 6	● 10	● <1
Sodium	ppm	● 3	● 3	● 4	● 4
Potassium	ppm	● 8	● 6	● 0	● 2

#### 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	● 136	● 164	● 371	● 36
Copper	ppm	● 2	● 14	● 311	● 1
Lead	ppm	● 0	● 0	● <1	● 0
Tin	ppm	● <1	● <1	● 6	● 0
Aluminum	ppm	● 10	● 15	● <1	● 0
Chromium	ppm	● 1	● 2	● 4	● <1
Molybdenum	ppm	● 0	● 0	0	0
Nickel	ppm	● <1	● 0	● 2	● 0
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	● 2	● 3	3	1
Vanadium	ppm	0	<1	<1	<1



#### ADDITIVES

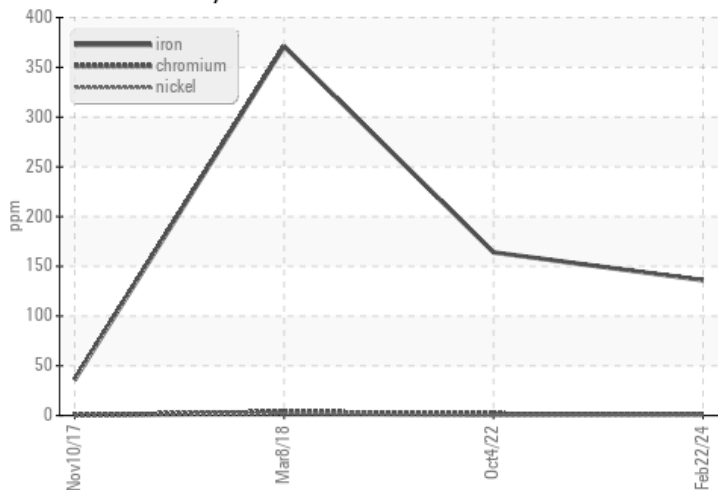
Calcium	ppm	● 116	● 126	1033	40
Magnesium	ppm	● 5	● 5	20	1
Zinc	ppm	305	337	413	23
Phosphorus	ppm	● 1653	● 1787	1655	1528
Barium	ppm	● 0	● 0	2	2
Boron	ppm	● 37	26	30	2

Depot: LIEBHERRUS  
Unique No: 10915864  
Signed: Don Baldrige  
Report Date: 11 Mar 2024

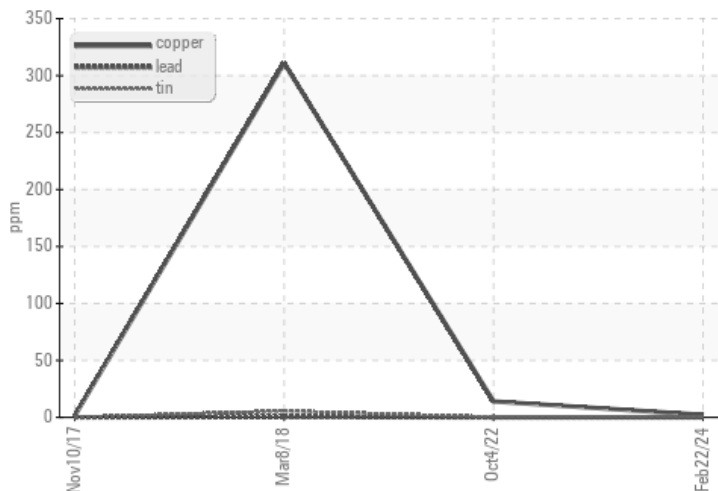


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

