

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A944 054454-194 - Front Left Wheel Hub

Sample No: LH0264421

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### Sample Information

Sample Number	LH0264421	LHMC96968	LHMC97119	LH03741340
Sample Date	29 Mar 2024	26 Apr 2018	16 May 2016	27 Apr 2015
Machine Hours	7425	2587	986	595
Oil Hours	0	0	0	595
Oil Changed	Not Chngd	Not Chngd	N/A	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

**UNITED STATES GYPSUM**  
 301 RILEY RD  
 EAST CHICAGO, IN  
 US 43612  
 Contact: Service Manager



#### Oil Condition

Visc @ 40°C	cSt	135	132.1	185.6	27.52
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T:  
F:



#### Contamination

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

#### 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	61	17	15	10
Copper	ppm	9	<1	4	2
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	1	<1
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	4	0
Manganese	ppm	1	<1	1	<1
Vanadium	ppm	0	0	0	0



#### Additives

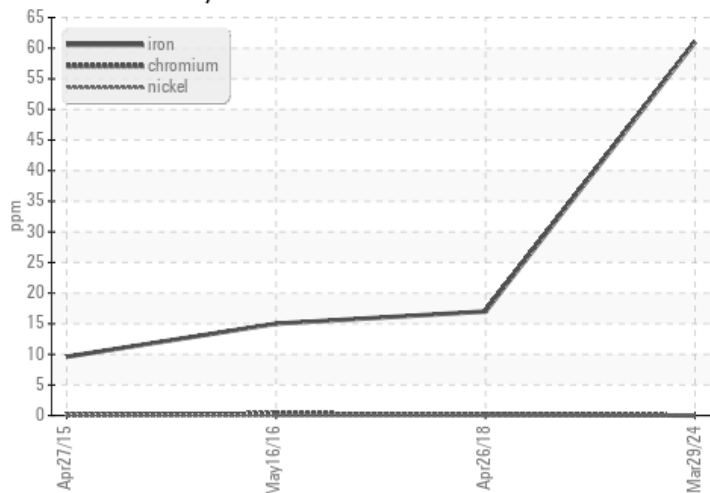
Calcium	ppm	7	4	5	5
Magnesium	ppm	0	0	1	1
Zinc	ppm	3	4	12	8
Phosphorus	ppm	1886	1638	1037	1067
Barium	ppm	44	20	275	315
Boron	ppm	290	213	<1	2

Depot: UNIEASLH  
 Unique No: 10957220  
 Signed: Sean Felton  
 Report Date: 05 Apr 2024

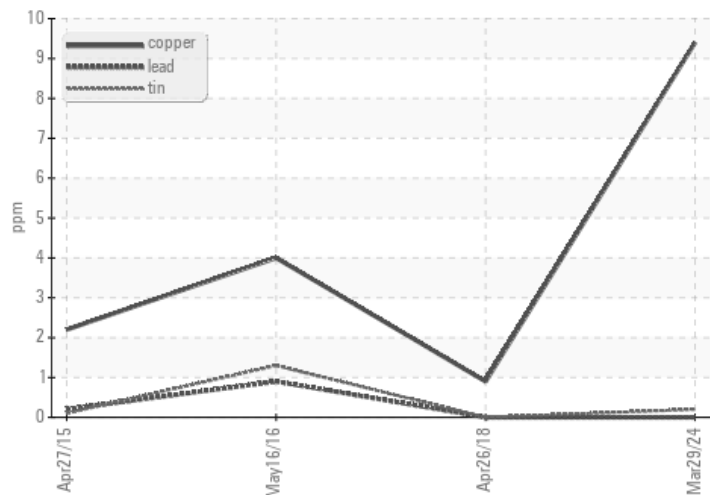


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

