

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R930 049615-1716 - Swing Drive

Sample No: LH0243965

Oil Type: LIEBHERR GEAR BASIC 90 LS



#### SAMPLE INFORMATION

Sample Number	LH0243965	LH0183112	---	---
Sample Date	12 Jun 2023	02 Oct 2020	---	---
Machine Hours	1685	522	---	---
Oil Hours	1685	522	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

ACECO

10119 RESIDENCY ROAD  
MANASSAS, VA  
US 20110  
Contact: RON BROCK



#### OIL CONDITION

Visc @ 40°C	cSt	195	196	---	---
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T: (703)392-0111  
F: (703)331-5604



#### CONTAMINATION

Silicon	ppm	<1	2	---	---
Sodium	ppm	<1	5	---	---
Potassium	ppm	<1	<1	---	---

#### Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other 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	936	715	---	---
Copper	ppm	0	<1	---	---
Lead	ppm	0	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	0	1	---	---
Chromium	ppm	8	10	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	8	6	---	---
Vanadium	ppm	0	0	---	---



#### ADDITIVES

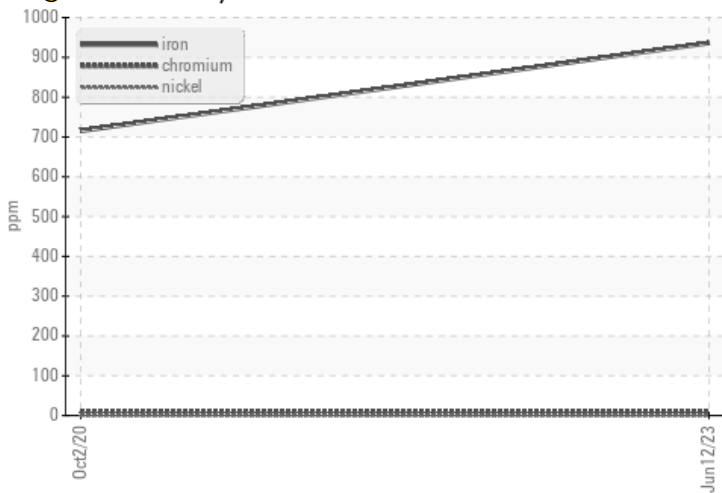
Calcium	ppm	8	10	---	---
Magnesium	ppm	4	<1	---	---
Zinc	ppm	25	12	---	---
Phosphorus	ppm	1239	1342	---	---
Barium	ppm	17	<1	---	---
Boron	ppm	0	25	---	---

Depot: ACEMAN  
Unique No: 10635930  
Signed: Don Baldrige  
Report Date: 10 Sep 2023

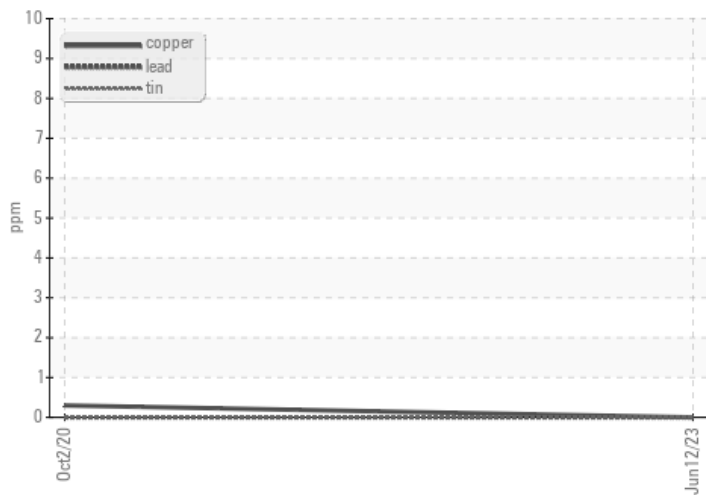


### GRAPHS

#### ● Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

