

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R936 040489-1148 - Left Final Drive

Sample No: LH0229681

Oil Type: LIEBHERR HYPOID 85W-140 EP



#### Sample Information

Sample Number	LH0229681	LH0267370	LH0244005	LHMC104330
Sample Date	21 Mar 2024	30 Aug 2023	21 May 2023	27 Jul 2022
Machine Hours	9014	8524	8050	6781
Oil Hours	1000	474	0	494
Oil Changed	Changed	Changed	Not Changd	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

#### ACECO

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



#### Oil Condition

Visc @ 40°C	cSt	181	196	362	334
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T: (703)392-0111  
F: (703)331-5604



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	17	29	28	40
Sodium	ppm	3	0	1	2
Potassium	ppm	0	1	2	<1

#### Diagnosis

The oil change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	70	125	121	118
Copper	ppm	0	<1	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	4	4	12
Chromium	ppm	<1	2	2	1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	<1	1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	1	1
Vanadium	ppm	0	0	<1	0



#### Additives

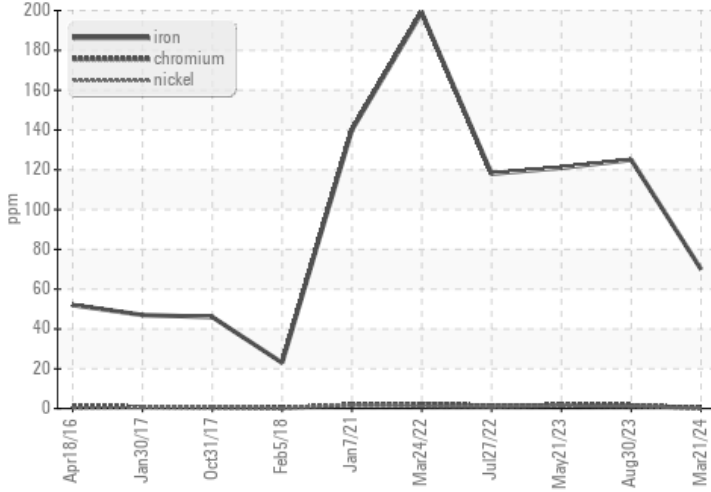
Calcium	ppm	82	18	9	17
Magnesium	ppm	<1	2	<1	3
Zinc	ppm	24	6	<1	6
Phosphorus	ppm	2262	2149	1300	1192
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	3	5

Depot: ACEMAN  
Unique No: 10992566  
Signed: Jonathan Hester  
Report Date: 25 Apr 2024

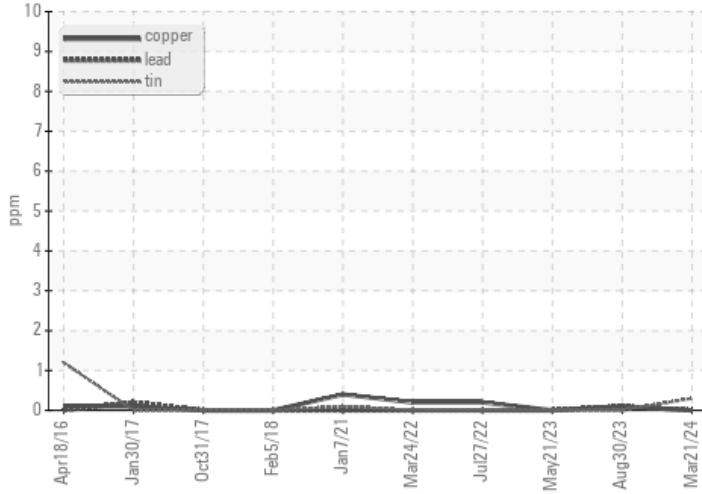


### Graphs

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

