

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R944C 025842-791 - Swing Drive

Sample No: LH0258214

Oil Type: LIEBHERR HYPOID 85W-140 EP



#### SAMPLE INFORMATION

Sample Number	LH0258214	LH0243949	LH0229868	LHMC166236
Sample Date	20 Jul 2023	14 Mar 2023	28 Oct 2022	29 Apr 2022
Machine Hours	10120	9586	9162	8570
Oil Hours	552	0	592	539
Oil Changed	Changed	Not Changd	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

#### ACECO

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



#### OIL CONDITION

Visc @ 40°C	cSt	325	324	350	361
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T: (703)392-0111  
F: (703)331-5604



#### CONTAMINATION

Water	%	---	0.216	---	---
Silicon	ppm	2	2	2	1
Sodium	ppm	<1	0	4	3
Potassium	ppm	0	<1	0	0

#### 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. Bearing and/or bushing 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.



#### WEAR METALS

Iron	ppm	465	159	111	296
Copper	ppm	265	122	156	70
Lead	ppm	2	0	0	<1
Tin	ppm	6	3	4	3
Aluminum	ppm	0	0	<1	3
Chromium	ppm	4	2	<1	2
Molybdenum	ppm	0	<1	0	<1
Nickel	ppm	1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	<1	<1	2
Vanadium	ppm	0	0	0	0



#### ADDITIVES

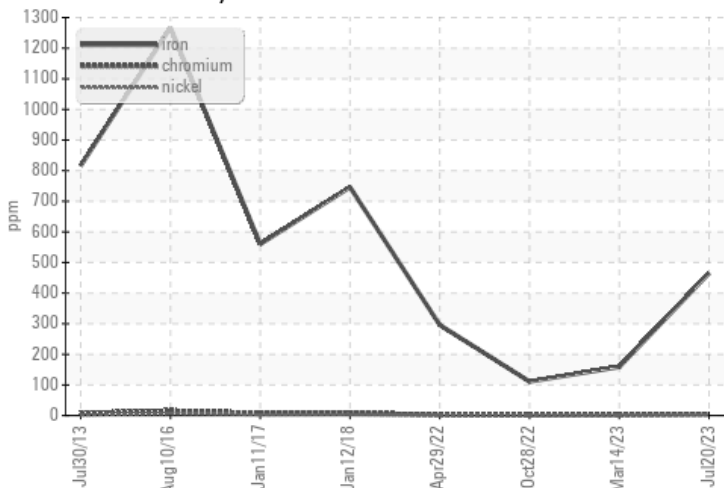
Calcium	ppm	13	8	12	4
Magnesium	ppm	5	1	<1	0
Zinc	ppm	18	8	10	3
Phosphorus	ppm	1284	1189	1267	1209
Barium	ppm	7	0	0	0
Boron	ppm	0	0	<1	9

Depot: ACEMAN  
Unique No: 10635935  
Signed: Don Baldrige  
Report Date: 10 Sep 2023

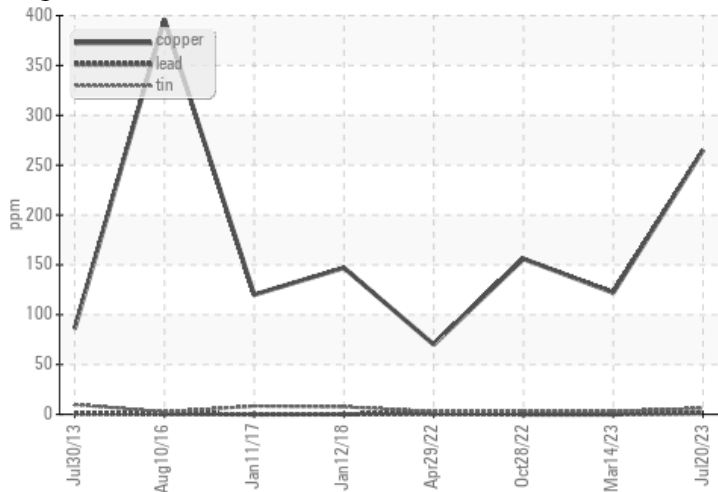


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

