

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R946 046853-1491 - Splitter Box

Sample No: LH0258284

Oil Type: LIEBHERR HYPOID 85W-140 EP



#### SAMPLE INFORMATION

Sample Number	<b>LH0258284</b>	LH0243976	LH0229880	LH0220892
Sample Date	<b>31 Jul 2023</b>	24 Feb 2023	06 Oct 2022	25 May 2022
Machine Hours	<b>4055</b>	3333	2811	2271
Oil Hours	<b>722</b>	522	2311	0
Oil Changed	<b>Changed</b>	Changed	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

#### ACECO

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



#### OIL CONDITION

Visc @ 40°C	cSt	<b>226</b>	329	342	340
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T: (703)392-0111  
F: (703)331-5604



#### CONTAMINATION

Silicon	ppm	<b>4</b>	4	2	2
Sodium	ppm	<b>2</b>	2	2	1
Potassium	ppm	<b>0</b>	2	0	0

#### 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	<b>7</b>	10	9	6
Copper	ppm	<b>&lt;1</b>	1	2	<1
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>0</b>	<1	0	0
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

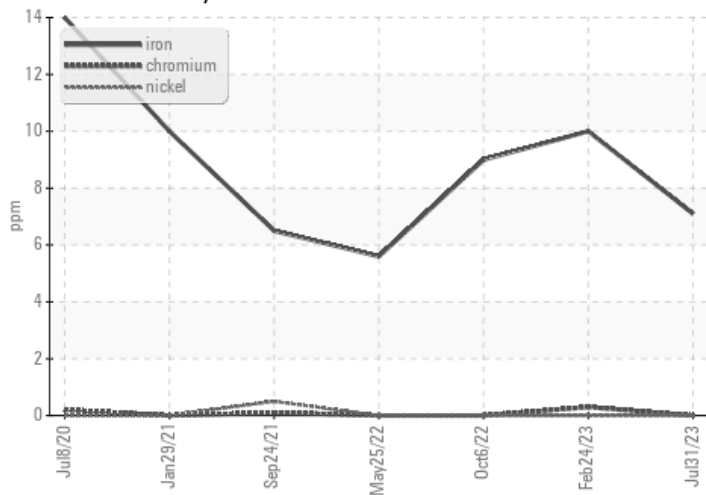
Calcium	ppm	<b>14</b>	52	0	2
Magnesium	ppm	<b>4</b>	35	5	0
Zinc	ppm	<b>25</b>	49	9	2
Phosphorus	ppm	<b>1843</b>	1089	1101	719
Barium	ppm	<b>7</b>	0	0	0
Boron	ppm	<b>0</b>	7	0	<1

Depot: ACEMAN  
Unique No: 10635933  
Signed: Don Baldrige  
Report Date: 10 Sep 2023

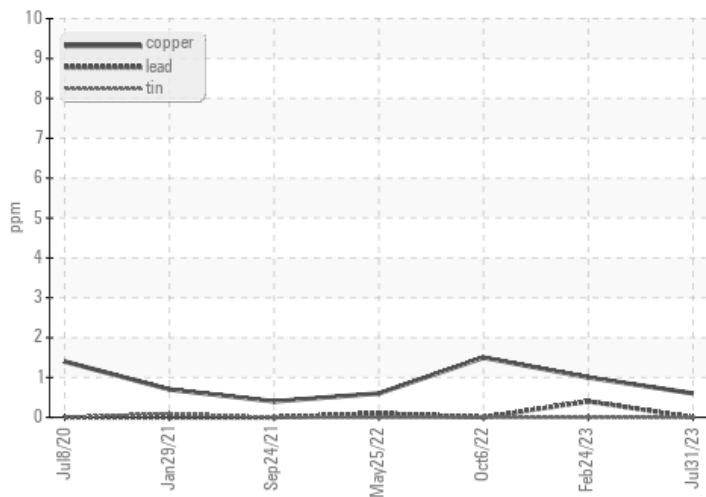


### GRAPHS

#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C

