

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR R920 050017-1705 - Left Final Drive

Sample No: LH0258272

Oil Type: LIEBHERR HYPOID 85W-140 EP



#### SAMPLE INFORMATION

Sample Number	<b>LH0258272</b>	LH0229731	LH0243926	LH0229866
Sample Date	<b>24 Aug 2023</b>	04 Apr 2023	24 Jan 2023	26 Oct 2022
Machine Hours	<b>3122</b>	2127	1614	1042
Oil Hours	<b>500</b>	500	500	498
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

#### POTOMAC METALS

42702 DULLES TRADE CT  
STERLING, VA  
US 20166  
Contact: JEREMY WONG  
JEREMY.WONG@POTOMACMETALS.COM  
T: (703)430-3667  
F:



#### OIL CONDITION

Visc @ 40°C	cSt	<b>182</b>	295	332	337
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#### CONTAMINATION

Silicon	ppm	<b>2</b>	1	1	2
Sodium	ppm	<b>3</b>	2	2	4
Potassium	ppm	<b>2</b>	0	0	<1



#### WEAR METALS

Iron	ppm	<b>16</b>	33	43	23
Copper	ppm	<b>&lt;1</b>	0	0	0
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



#### ADDITIVES

Calcium	ppm	<b>7</b>	4	5	17
Magnesium	ppm	<b>0</b>	5	5	<1
Zinc	ppm	<b>10</b>	0	0	11
Phosphorus	ppm	<b>1947</b>	1268	1265	1114
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>0</b>	4	0	<1

#### Diagnosis

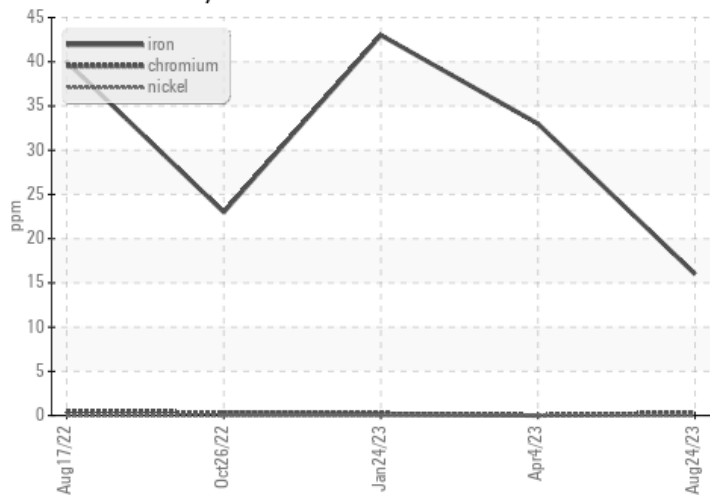
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: POTSTE  
Unique No: 10708581  
Signed: Jonathan Hester  
Report Date: 26 Oct 2023

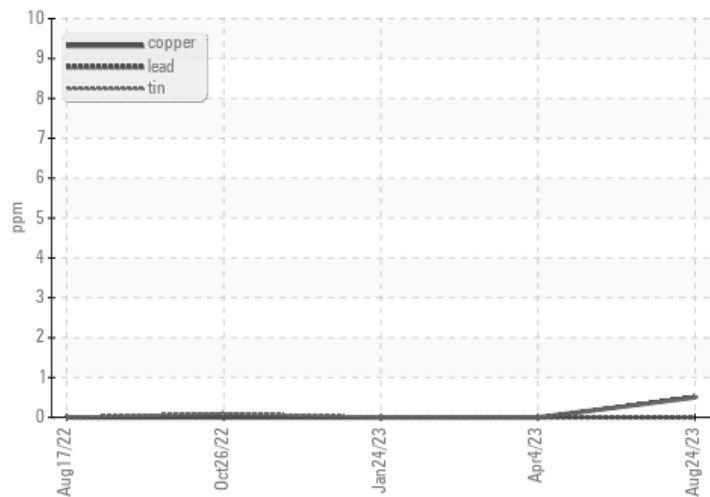


### GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

