

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R920 050017-1705 - Right Final Drive

Sample No: LH0258273

Oil Type: LIEBHERR HYPOID 85W-140 EP



SAMPLE INFORMATION

Sample Number	LH0258273	LH0229733	LH0243927	LH0229865
Sample Date	24 Aug 2023	04 Apr 2023	24 Jan 2023	26 Oct 2022
Machine Hours	3122	2127	1614	1042
Oil Hours	500	500	500	498
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	MARGINAL

POTOMAC METALS

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F:



OIL CONDITION

Visc @ 40°C	cSt	181	251	328	352
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CONTAMINATION

Water	%	---	---	---	0.327
Silicon	ppm	1	<1	<1	2
Sodium	ppm	3	3	2	2
Potassium	ppm	4	0	0	0



WEAR METALS

Iron	ppm	12	17	44	425
Copper	ppm	<1	<1	0	35
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	3
Aluminum	ppm	<1	<1	<1	1
Chromium	ppm	<1	0	<1	4
Molybdenum	ppm	0	0	0	<1
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	7	5	7	4
Magnesium	ppm	6	5	5	0
Zinc	ppm	15	0	0	34
Phosphorus	ppm	2421	2000	1192	1243
Barium	ppm	11	0	0	1
Boron	ppm	0	0	4	1

Diagnosis

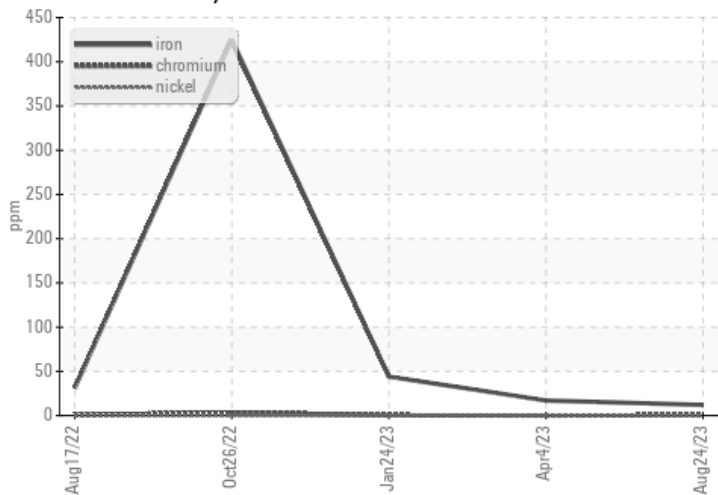
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: POTSTE
Unique No: 10708584
Signed: Jonathan Hester
Report Date: 26 Oct 2023

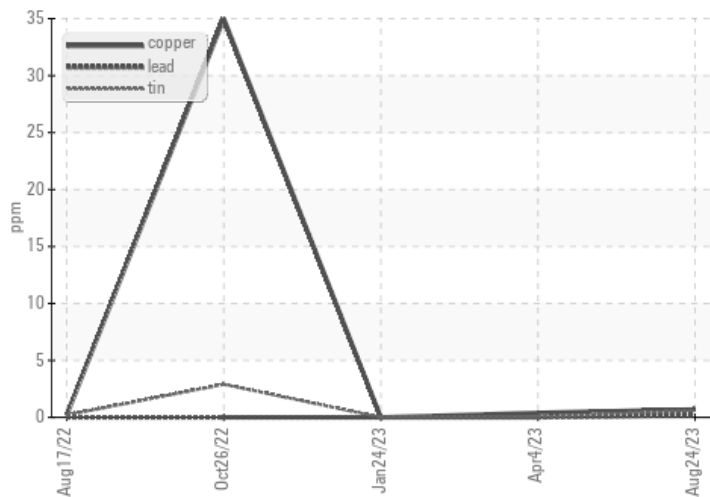


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

