

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 NOT GIVEN PCA0128568 (S/N 145582-1216) - Swi

Sample No: LH0273655

Oil Type: LIEBHERR GEAR BASIC 90 LS



RECO EQUIPMENT INC
 10461 GRAND RIVER RD
 BRIGHTON, MI
 US 48116
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Sample Information

Sample Number	LH0273655	LH0243298	LH0268525	LH0243271
Sample Date	06 Jun 2024	20 Nov 2023	14 Sep 2023	15 Jun 2023
Machine Hours	3371	2062	1633	1005
Oil Hours	1000	0	992	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	158	172	157	175
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	<1	0	<1	<1
Sodium	ppm	<1	0	1	2
Potassium	ppm	1	<1	<1	3



Wear Metals

Iron	ppm	46	20	31	68
Copper	ppm	38	30	46	23
Lead	ppm	<1	0	0	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	<1	<1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	80	82	148	62
Magnesium	ppm	2	2	4	6
Zinc	ppm	74	35	95	34
Phosphorus	ppm	2059	2118	2063	2269
Barium	ppm	2	<1	0	0
Boron	ppm	<1	0	3	4

Diagnosis

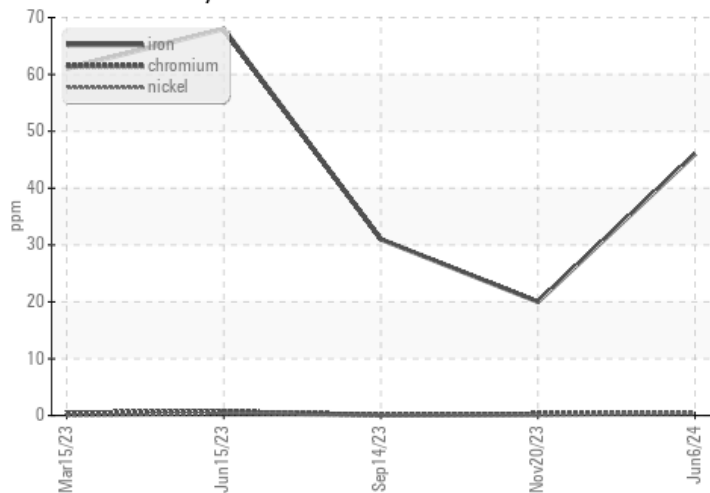
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 11088005
Signed: Wes Davis
Report Date: 20 Jun 2024

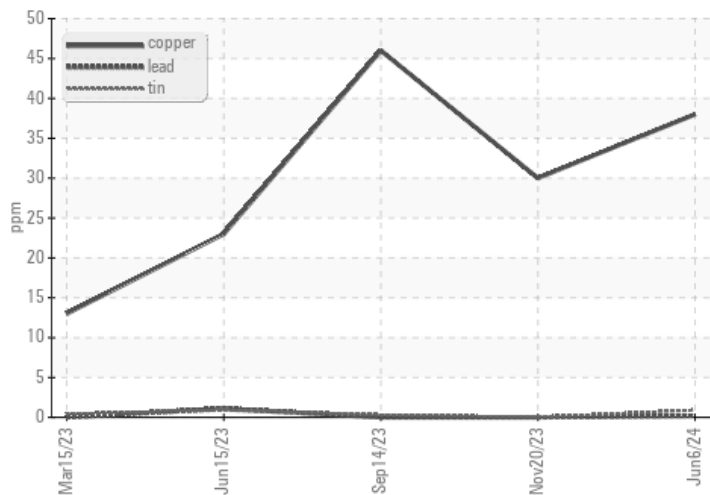


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

