

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0273652

Oil Type: LIEBHERR GEAR BASIC 90 LS



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Sample Information

Sample Number	LH0273652	LH0272945	LH0268520	LH0243264
Sample Date	06 Jun 2024	20 Nov 2023	14 Sep 2023	15 Jun 2023
Machine Hours	3371	2062	1633	1008
Oil Hours	1000	0	1633	0
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



Oil Condition

Visc @ 40°C	cSt	● 183	● 147	● 147	● 163
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	● <1	● 1	● 2	● 7
Sodium	ppm	● 1	● 2	● 3	● 2
Potassium	ppm	● 1	● <1	● <1	● 3



Wear Metals

Iron	ppm	● 5	● 5	● 6	● 20
Copper	ppm	● 6	● 9	● 10	● 12
Lead	ppm	● 0	● 0	● 0	● <1
Tin	ppm	● <1	● 0	● 0	● <1
Aluminum	ppm	● 2	● 2	● 0	● 2
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● <1	● 0	● 0	● 4
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	● 8	● 5	● 8	● 188
Magnesium	ppm	● <1	● 1	● 1	● 6
Zinc	ppm	● 10	● 0	● 8	33
Phosphorus	ppm	● 2299	● 1517	● 1523	● 1534
Barium	ppm	● 2	● 93	● 92	● 2
Boron	ppm	● 5	● 117	● 117	● 9

Diagnosis

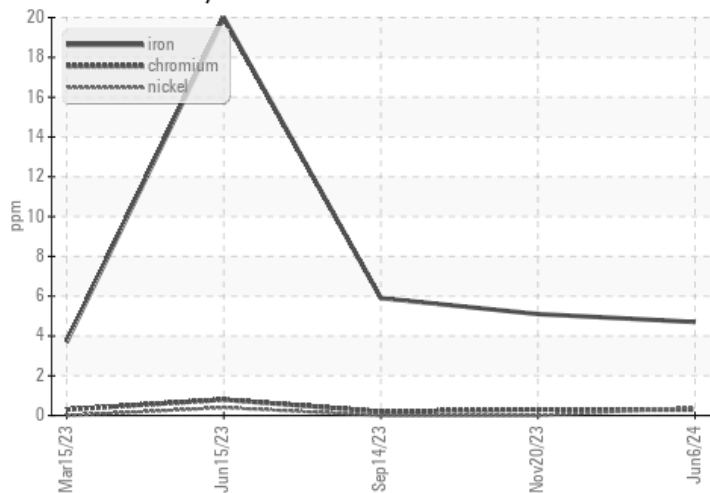
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
 Unique No: 11088003
 Signed: Wes Davis
 Report Date: 20 Jun 2024

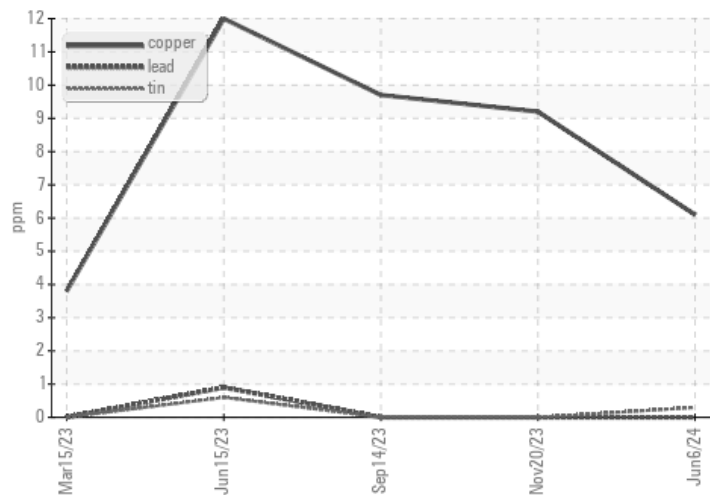


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

