

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0273653

Oil Type: LIEBHERR GEAR BASIC 90 LS



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 BRIGHTON, MI
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Sample Information

Sample Number	LH0273653	LH0272951	LH0268522	LH0243265
Sample Date	06 Jun 2024	20 Nov 2023	14 Sep 2023	15 Jun 2023
Machine Hours	3371	2062	1633	1005
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	167	140	140	141
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Contamination

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	9	13	12
Sodium	ppm	8	5	9	7
Potassium	ppm	3	3	4	6



Wear Metals

Iron	ppm	43	46	58	42
Copper	ppm	12	20	24	14
Lead	ppm	<1	0	<1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	3	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	0	<1	1
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	2	2	4	4
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	39	56	79	70
Magnesium	ppm	2	3	4	6
Zinc	ppm	41	8	33	25
Phosphorus	ppm	2082	1592	2004	1642
Barium	ppm	1	1	0	0
Boron	ppm	16	32	46	54

Diagnosis

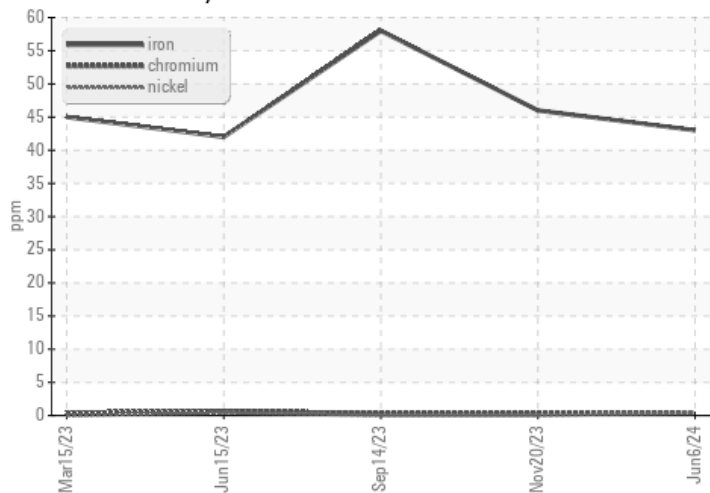
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 11088004
Signed: Wes Davis
Report Date: 20 Jun 2024

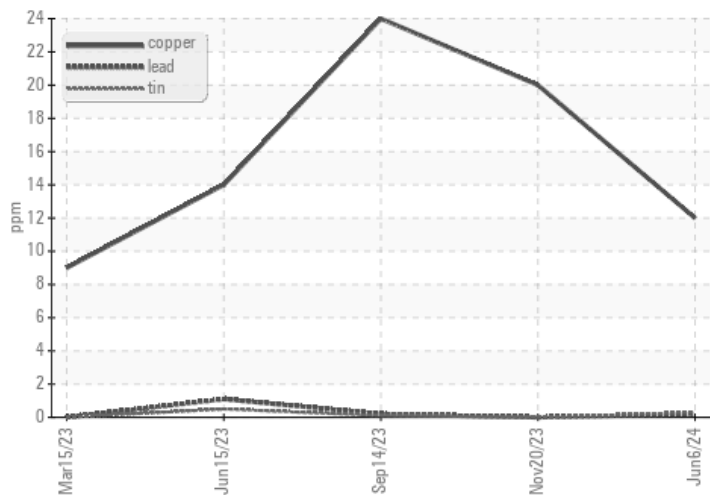


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

