

LIEBHERR

CONSTRUCTION EQUIPMENT



[[KIMMEL]] LIEBHERR LH50 145582-1216 - Front Differential

Sample No: LH0272945

Oil Type: LIEBHERR GEAR BASIC 90 LS



RECO EQUIPMENT INC
 10461 GRAND RIVER RD
 BRIGHTON, MI
 US 48116
 Contact: MATT VISEL
 MVISEL@RECOEQUIP.COM
 T: (810)299-1731
 F:



SAMPLE INFORMATION

Sample Number	LH0272945	LH0268520	LH0243264	LH0243212
Sample Date	20 Nov 2023	14 Sep 2023	15 Jun 2023	15 Mar 2023
Machine Hours	2062	1633	1008	461
Oil Hours	0	1633	0	461
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	147	147	163	146
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	1	2	7	3
Sodium	ppm	2	3	2	5
Potassium	ppm	<1	<1	3	0



WEAR METALS

Iron	ppm	5	6	20	4
Copper	ppm	9	10	12	4
Lead	ppm	0	0	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	0	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	4	<1
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	1	1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	5	8	188	9
Magnesium	ppm	1	1	6	2
Zinc	ppm	0	8	33	0
Phosphorus	ppm	1517	1523	1534	1444
Barium	ppm	93	92	2	83
Boron	ppm	117	117	9	106

Diagnosis

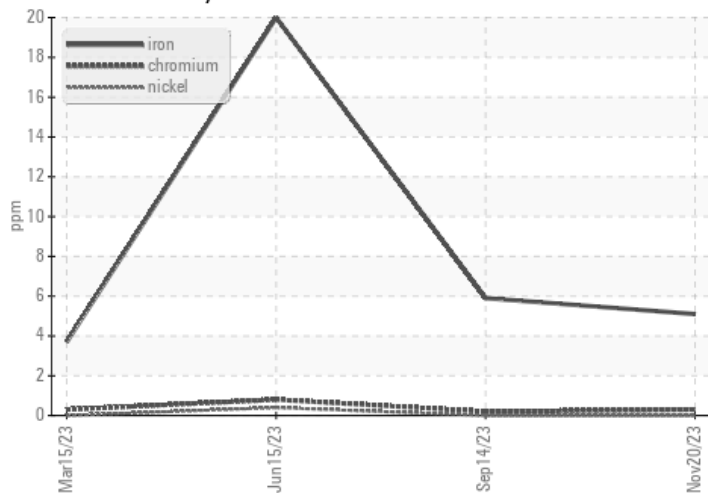
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 10849972
Signed: Don Baldrige
Report Date: 31 Jan 2024

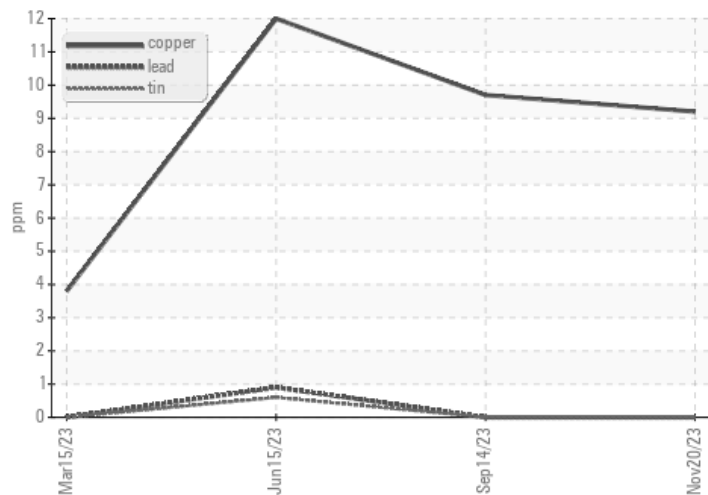


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

