

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0272946

Oil Type: LIEBHERR GEAR BASIC 90 LS



RECO EQUIPMENT INC
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SAMPLE INFORMATION

Sample Number	LH0272946	LH0268529	LH0243272	LH0243210
Sample Date	20 Nov 2023	19 Sep 2023	15 Jun 2023	15 Mar 2023
Machine Hours	2062	1633	1005	461
Oil Hours	0	1633	0	461
Oil Changed	Changed	Not Changd	N/A	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	156	155	147	152



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	7	2	7
Sodium	ppm	0	1	5	3
Potassium	ppm	1	1	2	0



WEAR METALS

Iron	ppm	19	22	6	17
Copper	ppm	20	18	6	6
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	<1	2	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	3	4	<1	4
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	1	2
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	161	170	6	190
Magnesium	ppm	1	1	6	4
Zinc	ppm	20	36	3	24
Phosphorus	ppm	1464	1445	1548	1438
Barium	ppm	2	0	97	0
Boron	ppm	5	5	111	10

Diagnosis

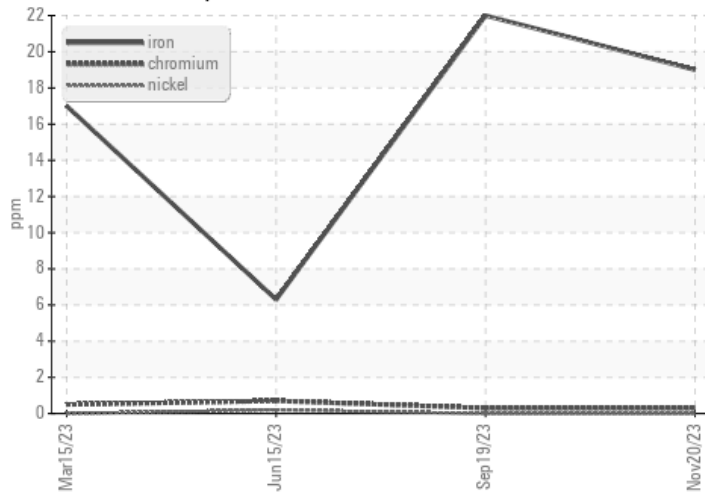
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRLH
 Unique No: 10849975
 Signed: Wes Davis
 Report Date: 30 Jan 2024

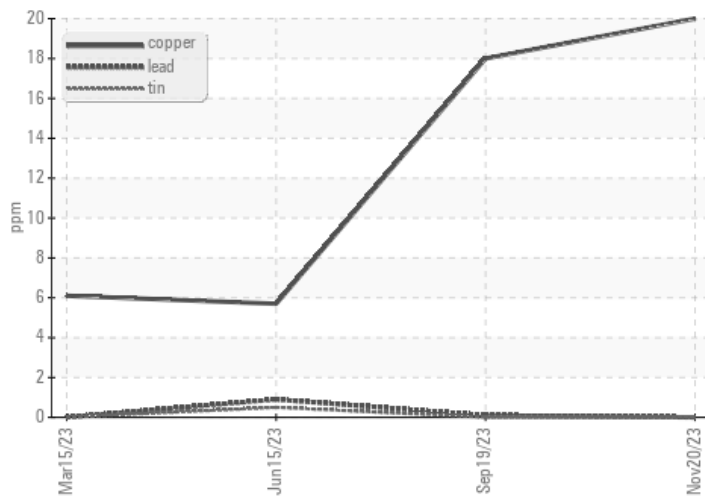


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

