

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 145582-1216 - Front Right Wheel Hub

Sample No: LH0268521

Oil Type: LIEBHERR GEAR BASIC 90 LS



RECO EQUIPMENT INC
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 BRIGHTON, MI
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SAMPLE INFORMATION

Sample Number	LH0268521	LH0243263	LH0243209	---
Sample Date	14 Sep 2023	15 Jun 2023	15 Mar 2023	---
Machine Hours	1633	1005	461	---
Oil Hours	1633	0	461	---
Oil Changed	Not Changd	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	140	140	142	---
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CONTAMINATION

Silicon	ppm	12	14	14	---
Sodium	ppm	9	8	8	---
Potassium	ppm	4	6	2	---



WEAR METALS

Iron	ppm	70	62	58	---
Copper	ppm	25	18	8	---
Lead	ppm	0	1	0	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	3	4	1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	1	<1	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	4	5	4	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	59	50	51	---
Magnesium	ppm	3	8	4	---
Zinc	ppm	38	30	14	---
Phosphorus	ppm	1590	1684	1615	---
Barium	ppm	0	0	0	---
Boron	ppm	35	57	72	---

Diagnosis

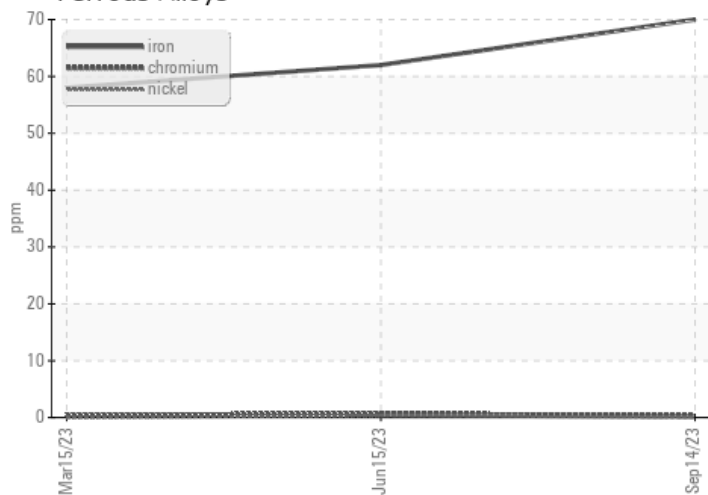
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: RECBRILH
Unique No: 10669687
Signed: Don Baldrige
Report Date: 29 Sep 2023

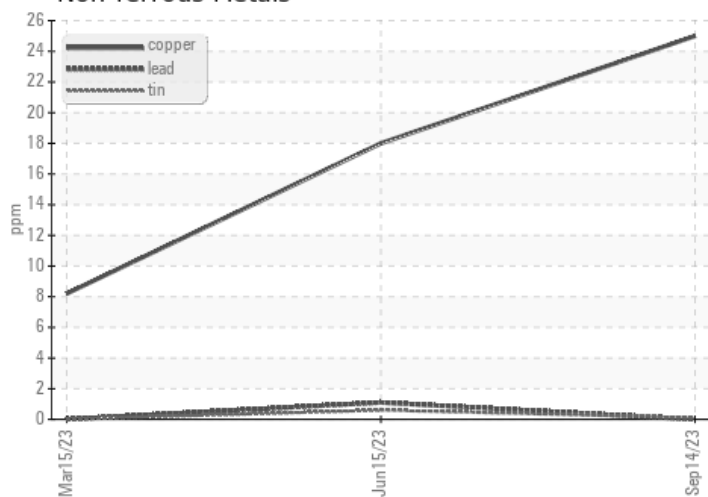


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

