

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-121548 - Rear Differential

Sample No: LH0243394

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0243394	LH0263859	LH0236119	---
Sample Date	05 Oct 2023	18 Jul 2023	20 Jan 2023	---
Machine Hours	2969	2422	1172	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	122	130	130	---
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CONTAMINATION

Silicon	ppm	<1	2	2	---
Sodium	ppm	1	3	2	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	8	21	19	---
Copper	ppm	5	8	8	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	<1	0	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	44	35	51	---
Magnesium	ppm	<1	9	2	---
Zinc	ppm	13	32	29	---
Phosphorus	ppm	863	835	872	---
Barium	ppm	0	0	0	---
Boron	ppm	3	3	7	---

Diagnosis

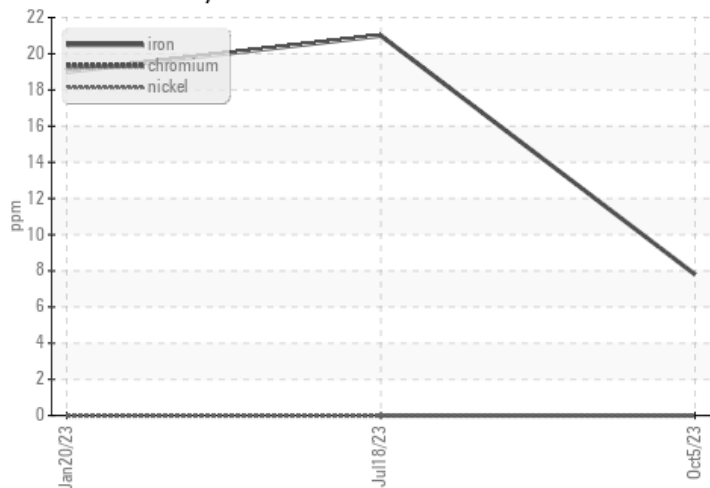
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10701561
 Signed: Doug Bogart
 Report Date: 20 Oct 2023

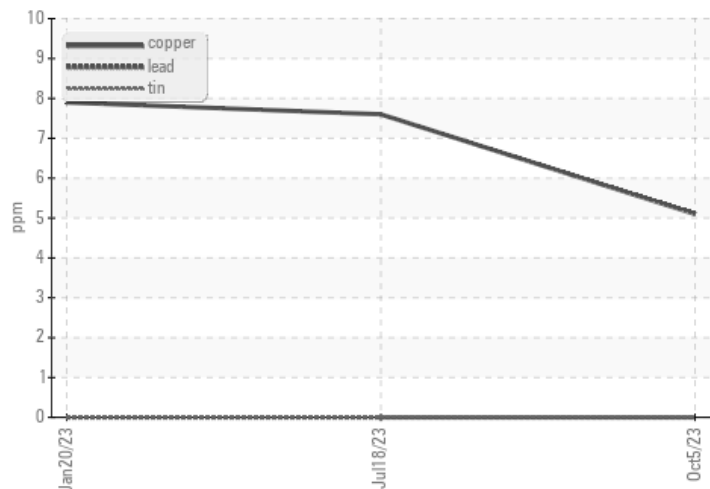


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

