

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Front Differential

Sample No: LH0272485

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
 2400 NORTH 14TH AVENUE
 WAUSAU, WI
 US 54401
 Contact: CHRIS BARTNIK
 cbartnik@amstate.com
 T: (715)675-6900
 F: (715)675-9748



SAMPLE INFORMATION

Sample Number	LH0272485	LH0254794	LH0243160	---
Sample Date	30 Oct 2023	14 Apr 2023	11 Jan 2023	---
Machine Hours	1993	1008	473	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	126	130	184	---
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CONTAMINATION

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



WEAR METALS

Iron	ppm	6	4	8	---
Copper	ppm	17	3	4	---
Lead	ppm	0	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	0	0	0	---
Chromium	ppm	0	0	0	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	0	0	0	---
Titanium	ppm	1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	39	22	14	---
Magnesium	ppm	12	8	1	---
Zinc	ppm	40	25	0	---
Phosphorus	ppm	619	814	769	---
Barium	ppm	0	0	219	---
Boron	ppm	3	3	0	---

Diagnosis

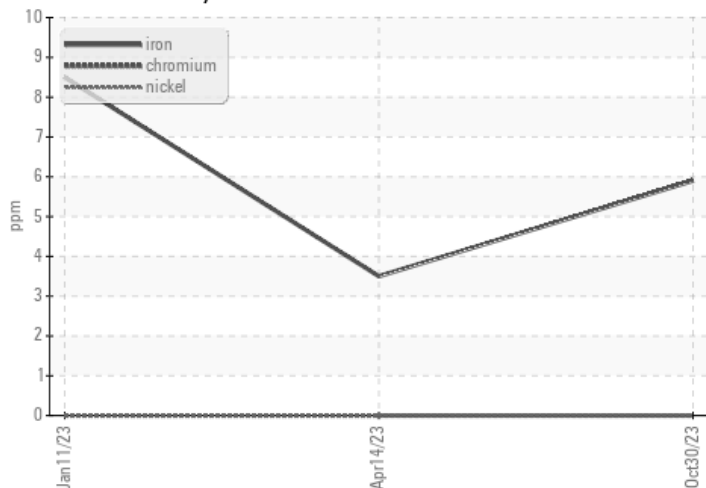
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10728448
 Signed: Sean Felton
 Report Date: 08 Nov 2023

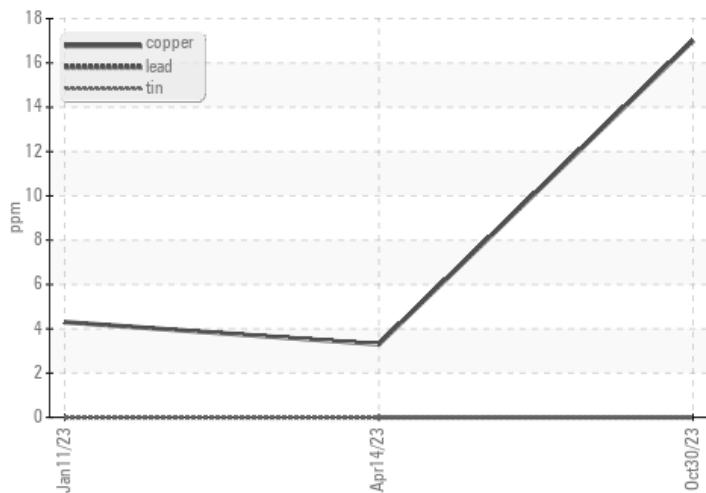


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

