

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Swing Drive

Sample No: LH0272491

Oil Type: GEAR OIL LS 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0272491	LH0254789	LH0243158	---
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	123	141	180	---
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CONTAMINATION

Silicon	ppm	2	4	10	---
Sodium	ppm	1	1	4	---
Potassium	ppm	0	0	0	---



WEAR METALS

Iron	ppm	114	130	273	---
Copper	ppm	61	66	133	---
Lead	ppm	0	0	1	---
Tin	ppm	2	6	13	---
Aluminum	ppm	0	0	4	---
Chromium	ppm	0	<1	1	---
Molybdenum	ppm	0	2	0	---
Nickel	ppm	0	0	<1	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	2	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	40	28	22	---
Magnesium	ppm	9	8	<1	---
Zinc	ppm	33	28	0	---
Phosphorus	ppm	784	1037	1846	---
Barium	ppm	0	0	0	---
Boron	ppm	2	4	6	---

Diagnosis

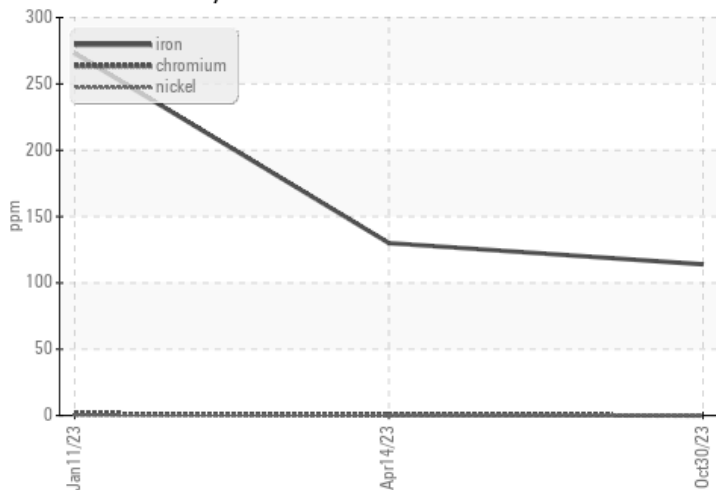
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10726903
 Signed: Sean Felton
 Report Date: 06 Nov 2023

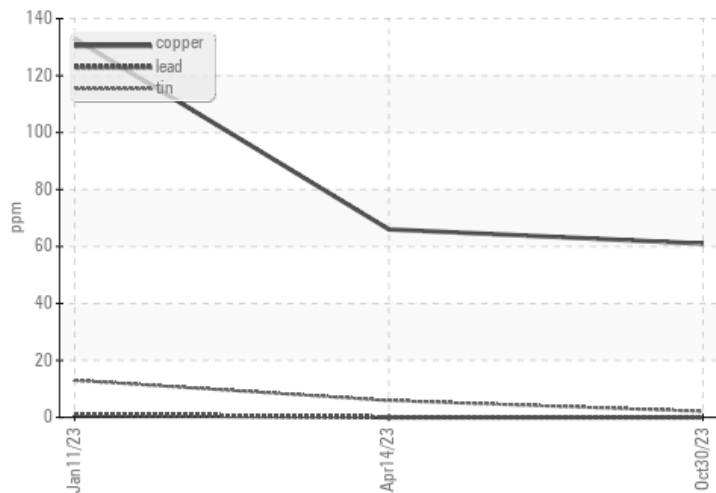


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

