

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 109502-1216 - Swing Drive

Sample No: LH0258804

Oil Type: GEAR OIL SAE 80W90



AMERICAN STATE EQUIPMENT CO.
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SAMPLE INFORMATION

Sample Number	LH0258804	LHMC149748	---	---
Sample Date	04 Mar 2024	26 Feb 2019	---	---
Machine Hours	22219	827	---	---
Oil Hours	0	827	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	191	181.5	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	3	1	---	---
Sodium	ppm	3	<1	---	---
Potassium	ppm	0	<1	---	---



WEAR METALS

Iron	ppm	394	78	---	---
Copper	ppm	664	36	---	---
Lead	ppm	0	2	---	---
Tin	ppm	28	0	---	---
Aluminum	ppm	0	<1	---	---
Chromium	ppm	2	<1	---	---
Molybdenum	ppm	0	0	---	---
Nickel	ppm	1	<1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	3	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	19	29	---	---
Magnesium	ppm	1	4	---	---
Zinc	ppm	42	15	---	---
Phosphorus	ppm	2064	2042	---	---
Barium	ppm	0	3	---	---
Boron	ppm	23	14	---	---

Diagnosis

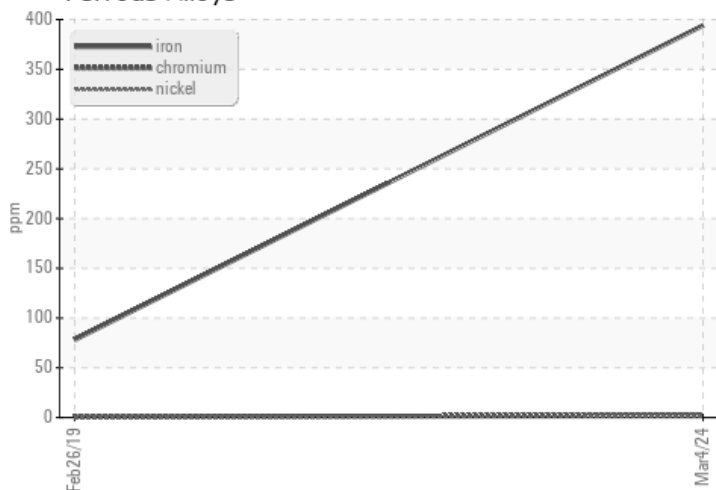
No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Bearing and/or bushing wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10949554
 Signed: Don Baldrige
 Report Date: 29 Mar 2024

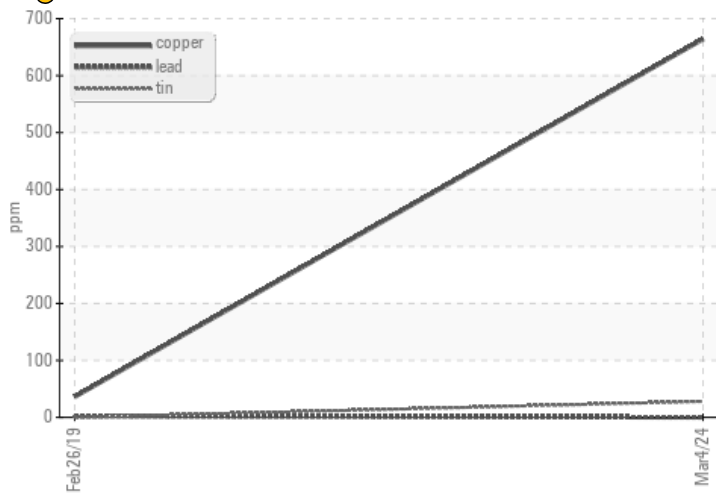


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

