

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR R934 025778-918 - Splitter Box

Sample No: LH0273807

Oil Type: GEAR OIL LS 80W90



Sample Information

Sample Number	LH0273807	LH0190479	LHMC34847	---
Sample Date	12 Apr 2024	09 Apr 2021	02 Sep 2011	---
Machine Hours	4594	3853	572	---
Oil Hours	0	0	572	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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Oil Condition

Visc @ 40°C	cSt	134	151	154.8	---
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Contamination

Water	%	NEG	NEG	NEG	---
Silicon	ppm	15	5	4	---
Sodium	ppm	<1	1	2	---
Potassium	ppm	19	11	19	---



Wear Metals

Iron	ppm	105	52	33	---
Copper	ppm	4	3	1	---
Lead	ppm	<1	2	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	40	7	3	---
Chromium	ppm	2	1	2	---
Molybdenum	ppm	2	0	<1	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	<1	0	0	---
Manganese	ppm	2	2	2	---
Vanadium	ppm	<1	0	0	---



Additives

Calcium	ppm	114	11	14	---
Magnesium	ppm	17	3	4	---
Zinc	ppm	210	105	62	---
Phosphorus	ppm	936	978	1008	---
Barium	ppm	33	76	138	---
Boron	ppm	32	21	5	---

Diagnosis

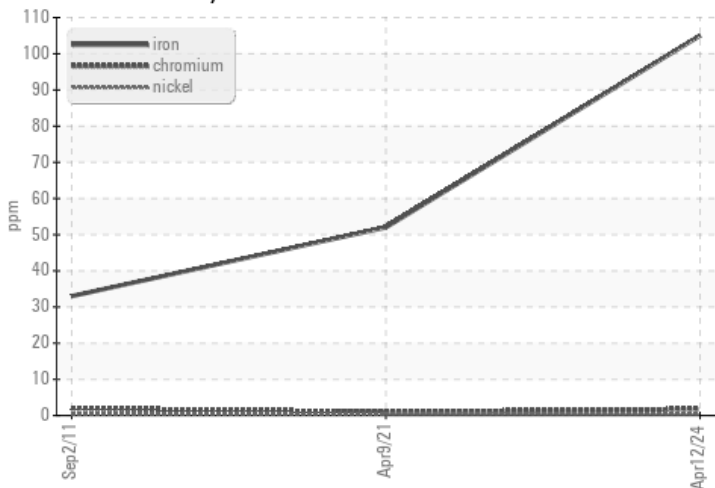
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10989270
 Signed: Jonathan Hester
 Report Date: 24 Apr 2024

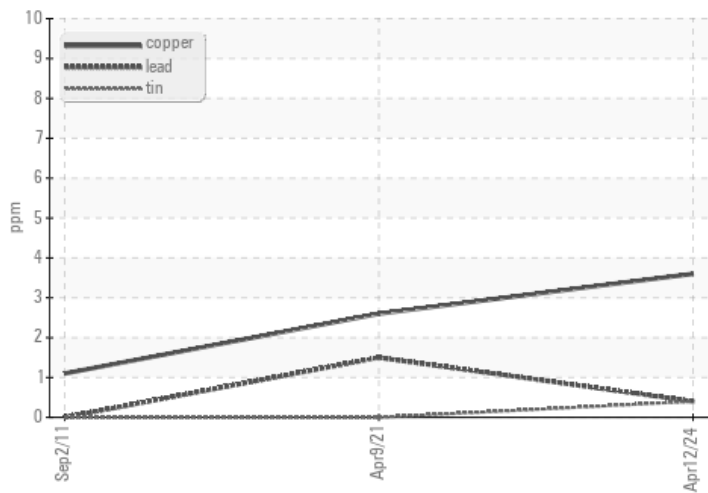


Graphs

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

