

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 142548-1216 - Transmission

Sample No: LH0272490

Oil Type: DIESEL ENGINE OIL SAE 5W40



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SAMPLE INFORMATION

Sample Number	LH0272490	LH0254793	LH0243156	---
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	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	47.4	49.7	49.6	---
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CONTAMINATION

Silicon	ppm	5	5	6	---
Sodium	ppm	9	16	38	---
Potassium	ppm	0	0	2	---



WEAR METALS

Iron	ppm	23	21	21	---
Copper	ppm	19	17	21	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	2	---
Aluminum	ppm	<1	1	5	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	16	26	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	57	27	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	6	25	28	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	1539	1906	3434	---
Magnesium	ppm	644	525	10	---
Zinc	ppm	1194	1167	1121	---
Phosphorus	ppm	1059	1047	1070	---
Barium	ppm	0	0	0	---
Boron	ppm	109	51	2	---

Diagnosis

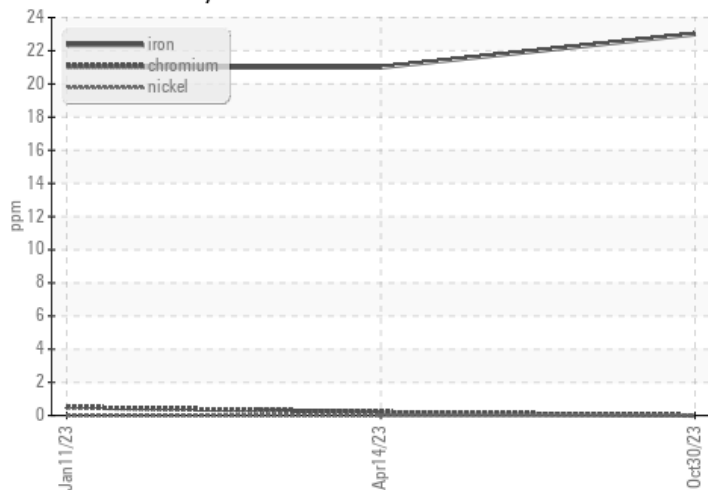
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
 Unique No: 10726905
 Signed: Sean Felton
 Report Date: 06 Nov 2023

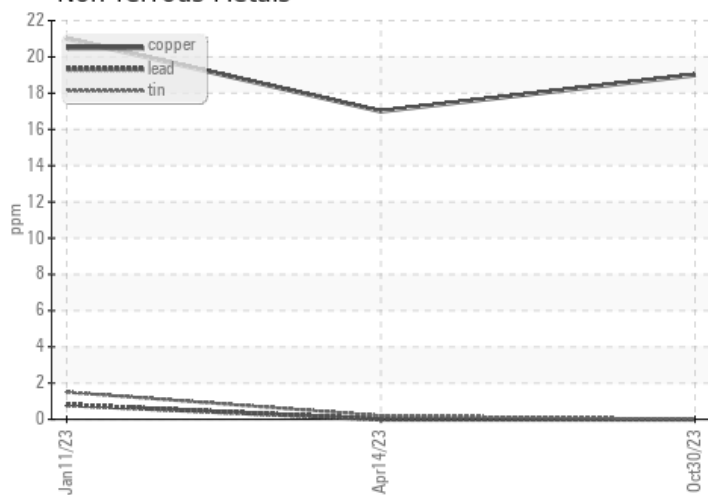


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

