

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH40M 124711-1215 - Transmission

Sample No: LH0253938

Oil Type: DIESEL ENGINE OIL SAE 5W40



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SAMPLE INFORMATION

Sample Number	LH0253938	LH0236482	LH0236456	LH0220663
Sample Date	26 Sep 2023	21 Apr 2023	07 Nov 2022	05 Aug 2022
Machine Hours	4000	3125	2024	1520
Oil Hours	0	1000	1000	500
Oil Changed	Changed	Changed	Changed	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	52.1	50.0	50.8	53.8
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CONTAMINATION

Silicon	ppm	4	4	3	4
Sodium	ppm	9	11	22	21
Potassium	ppm	2	4	5	2



WEAR METALS

Iron	ppm	9	12	15	16
Copper	ppm	9	15	25	21
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	3	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	3	4	3	3
Nickel	ppm	0	<1	0	0
Titanium	ppm	75	72	45	41
Silver	ppm	0	0	0	<1
Manganese	ppm	6	12	19	21
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	1563	1930	2510	2472
Magnesium	ppm	535	453	286	301
Zinc	ppm	1137	1160	1172	1225
Phosphorus	ppm	901	1039	1051	1075
Barium	ppm	0	0	2	0
Boron	ppm	136	112	71	84

Diagnosis

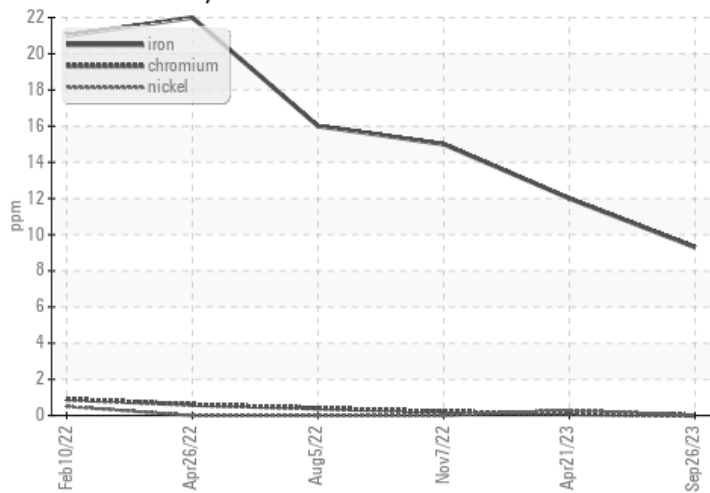
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: LEC0008
Unique No: 10728514
Signed: Sean Felton
Report Date: 08 Nov 2023

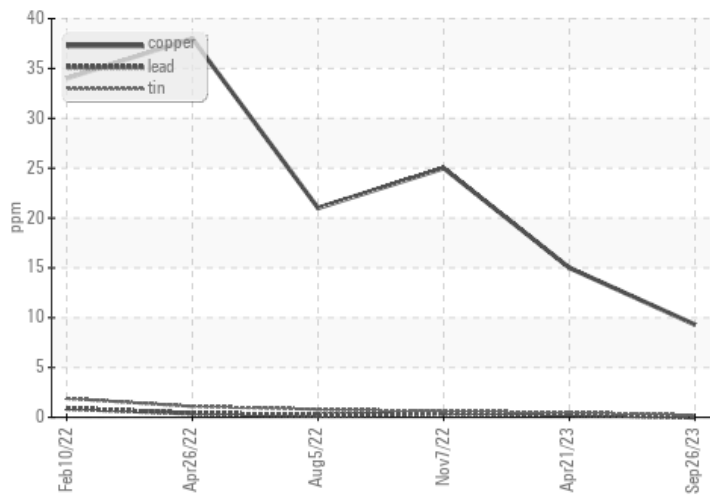


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

