

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-116574 - Transmission

Sample No: LH0272158

Oil Type: DIESEL ENGINE OIL SAE 5W40



BOISE WHITE PAPER
 3RD AVE AND HWY 11, 400 2ND ST
 INTERNATIONAL FALLS, MN
 US 56649
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 garymann@packagingcorp.com
 T:
 F: (218)285-5860



SAMPLE INFORMATION

Sample Number	LH0272158	LH0171136	LH0171122	LH0171108
Sample Date	20 Dec 2023	29 Aug 2023	27 Apr 2023	27 Jan 2023
Machine Hours	19776	17910	16726	14930
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	42.9	43.6	44.0	46.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	6	6	7	7
Sodium	ppm	4	4	3	4
Potassium	ppm	1	1	2	0



WEAR METALS

Iron	ppm	37	44	58	63
Copper	ppm	21	17	12	17
Lead	ppm	0	0	0	<1
Tin	ppm	2	<1	<1	1
Aluminum	ppm	2	3	4	5
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	1	4	5	4
Nickel	ppm	<1	0	0	<1
Titanium	ppm	83	77	51	0
Silver	ppm	0	0	0	0
Manganese	ppm	7	8	8	10
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1248	1406	1477	1299
Magnesium	ppm	705	723	815	690
Zinc	ppm	1133	1089	1130	802
Phosphorus	ppm	1035	947	953	703
Barium	ppm	0	0	0	<1
Boron	ppm	151	170	145	83

Diagnosis

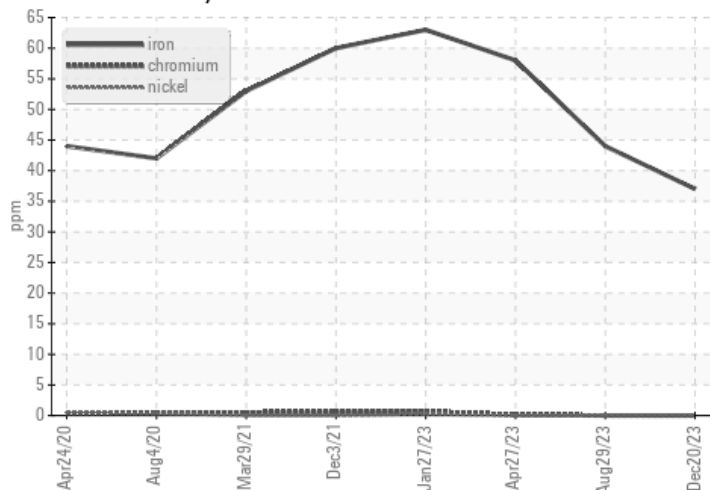
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: BOIINT
 Unique No: 10844717
 Signed: Don Baldrige
 Report Date: 24 Jan 2024

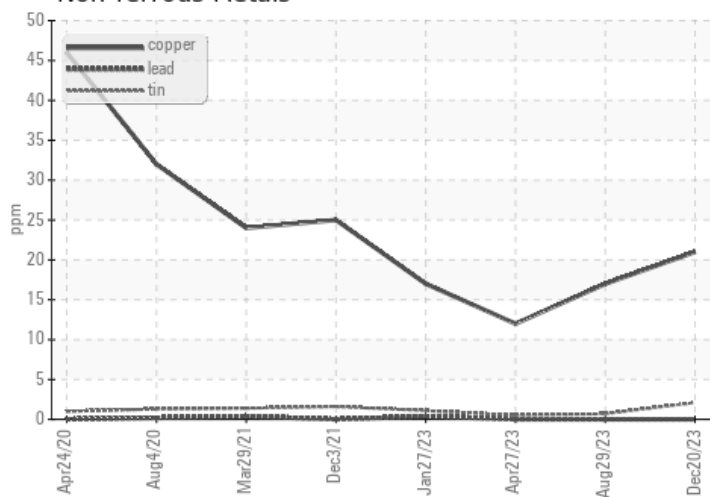


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

