

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50 1216-115016 - Swing Drive

Sample No: LH0272125

Oil Type: GEAR OIL SAE 80W90



SAMPLE INFORMATION

Sample Number	LH0272125	LH0156676	LH0156613	LH0156718
Sample Date	19 Dec 2023	30 Aug 2023	25 Apr 2023	25 Jan 2023
Machine Hours	17781	16752	15594	14552
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	SEVERE

PCA

400 2ND STREET
INTERNATIONAL FALLS, MN
US 56649
Contact: SCOTT LINDVALL
scottlindvall@boisepaper.com
T: (218)285-5706
F:



OIL CONDITION

Visc @ 40°C	cSt	140	182	180	214
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CONTAMINATION

Water	%	NEG	NEG	NEG	2.24
Silicon	ppm	1	4	1	36
Sodium	ppm	2	3	2	3
Potassium	ppm	0	2	4	<1



WEAR METALS

Iron	ppm	459	921	331	10000
Copper	ppm	74	143	56	2589
Lead	ppm	0	2	0	86
Tin	ppm	4	6	1	104
Aluminum	ppm	0	2	<1	5
Chromium	ppm	4	6	2	99
Molybdenum	ppm	2	<1	<1	4
Nickel	ppm	<1	<1	0	11
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	8	<1
Manganese	ppm	2	7	3	93
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	25	24	18	96
Magnesium	ppm	4	0	<1	39
Zinc	ppm	19	9	3	150
Phosphorus	ppm	949	1573	1475	2138
Barium	ppm	1	0	0	12
Boron	ppm	29	174	136	55

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm.

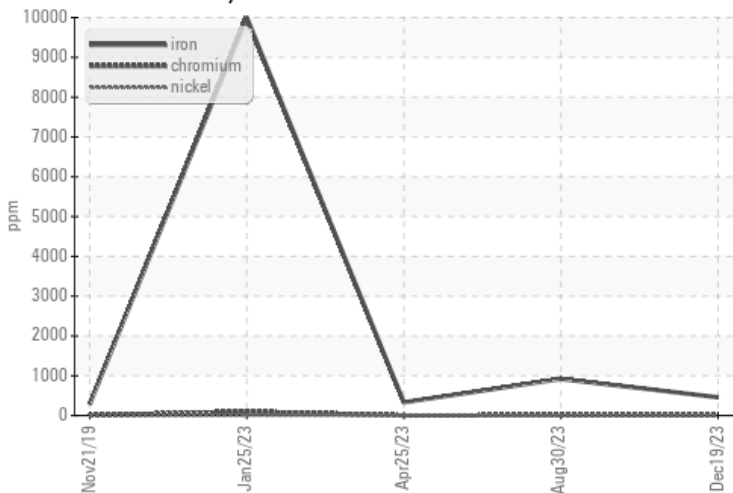
All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: PCAINT
Unique No: 10844587
Signed: Wes Davis
Report Date: 23 Jan 2024

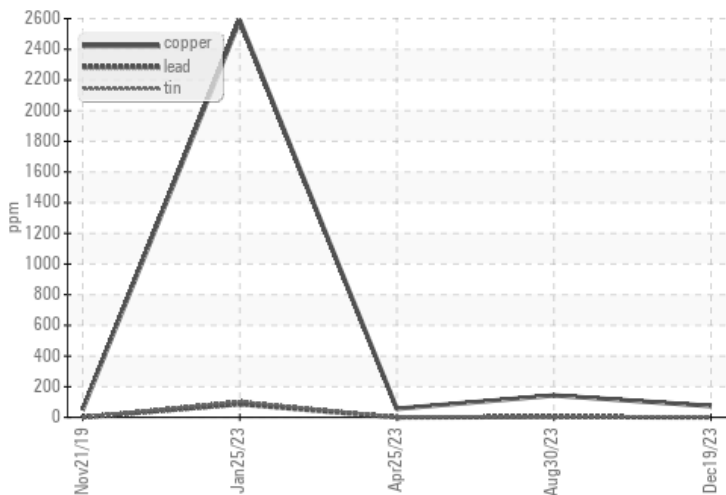


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

