

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LTM1130-5.1 066718 - Differential

Sample No: LH0259051

Oil Type: EP 90



SAMPLE INFORMATION

Sample Number	LH0259051	LH0259044	LH0259043	LH0259042
Sample Date	14 Feb 2024	14 Feb 2024	14 Feb 2024	12 Feb 2024
Machine Hours	0	0	0	0
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

LIEBHERR USA CO - MOBILE AND CRAWLER CRANES
 4100 CHESTNUT AVENUE
 NEWPORT NEWS, VA
 US 23607
 Contact: TERENCE VANDERLENDE
 TERENCE.VANDERLENDE@LIEBHERR.COM
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	195	193	186	194



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	15	13	10
Sodium	ppm	4	3	4	4
Potassium	ppm	2	2	2	2



WEAR METALS

Iron	ppm	703	151	167	38
Copper	ppm	108	42	22	13
Lead	ppm	0	<1	0	0
Tin	ppm	1	<1	<1	0
Aluminum	ppm	5	1	1	<1
Chromium	ppm	6	<1	1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	7	1	2	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	10	4	4	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	6	5	8	8
Magnesium	ppm	2	2	5	1
Zinc	ppm	61	35	15	4
Phosphorus	ppm	1114	1092	1123	1133
Barium	ppm	2	2	5	4
Boron	ppm	3	<1	5	4

Diagnosis

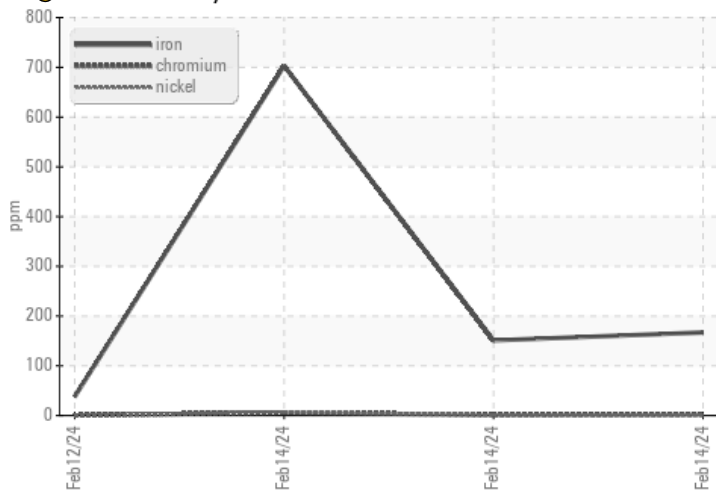
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Bearing and/or gear wear is indicated. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: LIENEW
 Unique No: 10886615
 Signed: Sean Felton
 Report Date: 21 Feb 2024

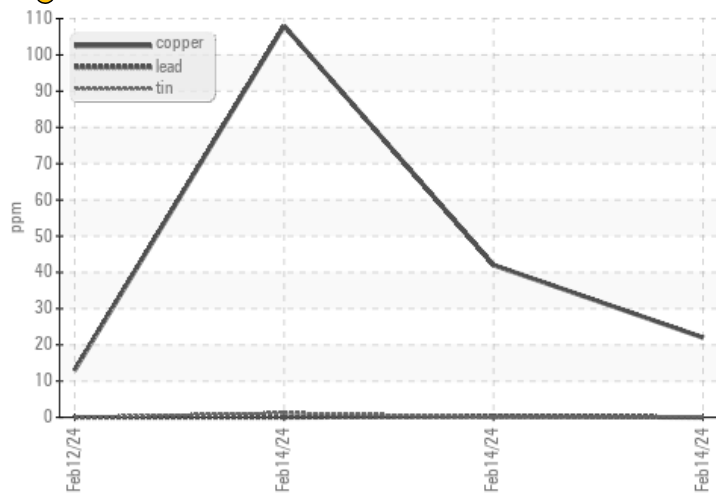


GRAPHS

Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C

