

LIEBHERR

CONSTRUCTION EQUIPMENT



[(361220)] LIEBHERR LH50M 134706-1216 - Hydraulic System

Sample No: LH
 Oil Type: NOT GIVEN



SAMPLE INFORMATION

Sample Number	LH	LH	LH0250100	LH0242764
Sample Date	15 Feb 2024	12 Sep 2023	27 Mar 2023	21 Jan 2023
Machine Hours	5100	4000	2610	2610
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

Industrial Metals
 550 Messier St.
 Winnipeg, MB
 CA R2J 0G5
 Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	44.1	44.2	43.3	43.6
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T:
 F:



CONTAMINATION

Water	%	NEG	NEG	0.161	NEG
Particles >4µm		46130	14043	15354	34484
Particles >6µm		12037	3274	4577	11794
Particles >14µm		332	98	218	1058
ISO 4406:1999 (c)		23/21/16	21/19/14	21/19/15	22/21/17
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	<1	1	<1
Potassium	ppm	1	1	2	<1

Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	30	34	35	35
Copper	ppm	3	3	3	3
Lead	ppm	<1	<1	1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	2	2
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

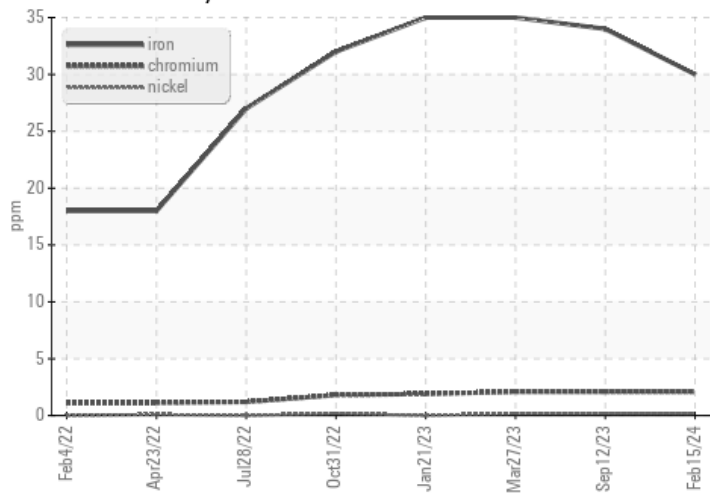
Calcium	ppm	495	590	806	801
Magnesium	ppm	2	2	3	2
Zinc	ppm	769	767	770	751
Phosphorus	ppm	668	724	689	671
Barium	ppm	0	0	0	0
Boron	ppm	5	7	<1	<1

Depot: IND550WIN
 Unique No: 5733800
 Signed: Wes Davis
 Report Date: 21 Feb 2024

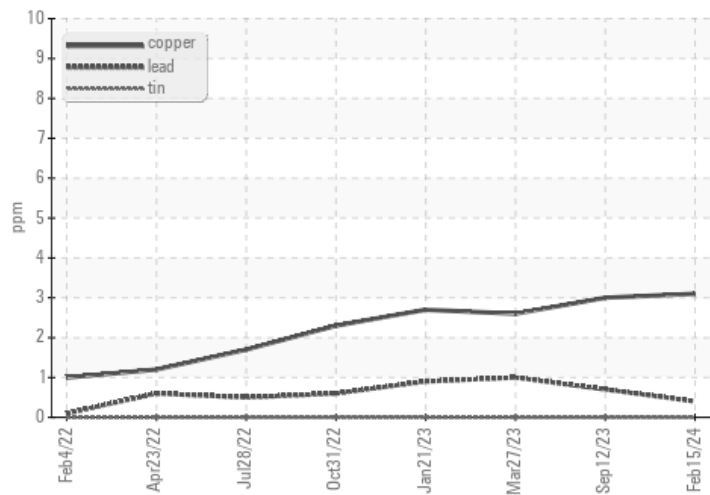


GRAPHS

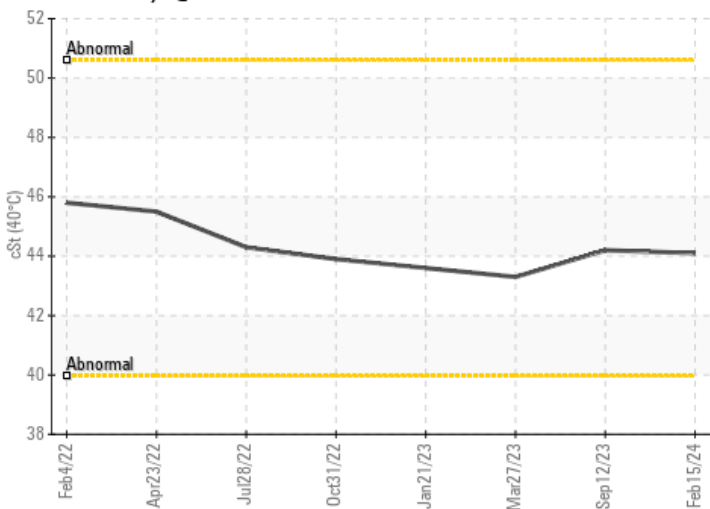
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

