

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 117 616-1216 - Hydraulic System

Sample No: LH0285047

Oil Type: AW HYDRAULIC OIL ISO 46



LIEBHERR CANADA LTD.
 1015 SUTTON DRIVE
 BURLINGTON, ON
 CA L7L 5Z8
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SAMPLE INFORMATION

Sample Number	LH0285047	LH0277423	LH0274533	LH0265688
Sample Date	08 Feb 2024	05 Nov 2023	23 Aug 2023	11 Jun 2023
Machine Hours	14242	14022	13444	12860
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ATTENTION



OIL CONDITION

Visc @ 40°C	cSt	41.2	40.9	40.9	40.9



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1512	26605	60965	27031
Particles >6µm		142	6747	16959	6243
Particles >14µm		6	375	1218	224
ISO 4406:1999 (c)		18/14/10	22/20/16	23/21/17	22/20/15
Silicon	ppm	<1	<1	<1	<1
Sodium	ppm	1	2	2	1
Potassium	ppm	<1	0	<1	<1



WEAR METALS

Iron	ppm	20	20	20	17
Copper	ppm	2	2	2	2
Lead	ppm	<1	<1	<1	0
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	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	177	126	126	139
Magnesium	ppm	2	1	2	1
Zinc	ppm	792	811	788	818
Phosphorus	ppm	621	633	656	702
Barium	ppm	0	<1	0	0
Boron	ppm	0	<1	<1	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.

Depot: LIEMIS
 Unique No: 5723763
 Signed: Kevin Marson
 Report Date: 12 Feb 2024

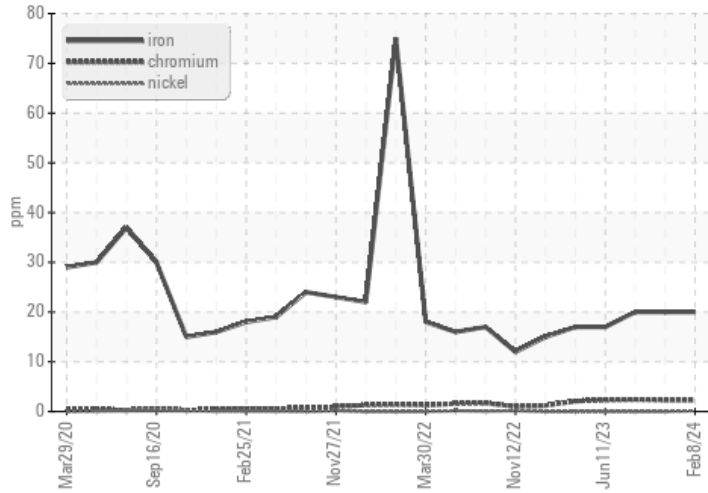
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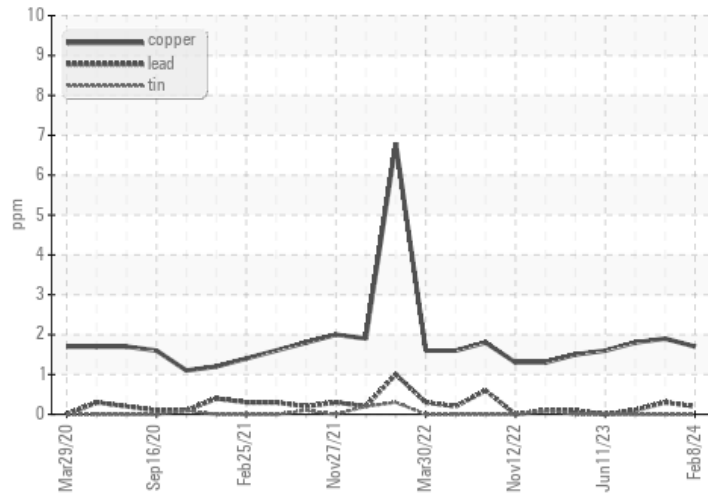


GRAPHS

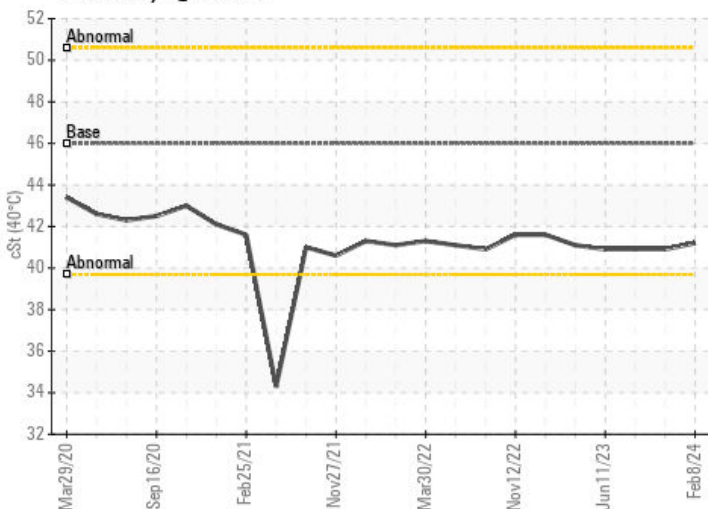
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

