

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH50M 138442 - Hydraulic System

Sample No: LH0281415
 Oil Type: NOT GIVEN



COMI - COMBINED METAL INDUSTRIES
 505 GARY RAY DRIVE
 NORTH YORK, ON
 CA M9L 1P9
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 F:



SAMPLE INFORMATION

Sample Number	LH0281415	LH0274624	LH0261754	LH0251844
Sample Date	07 Dec 2023	20 Aug 2023	21 Jun 2023	23 Mar 2023
Machine Hours	5641	4196	3555	2454
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	Not Changd	N/A
Sample Status	ATTENTION	ABNORMAL	ABNORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	43.2	42.1	41.8	43.1



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		32486	37132	78565	202
Particles >6µm		7997	10750	31285	58
Particles >14µm		326	645	3265	6
ISO 4406:1999 (c)		22/20/16	22/21/17	23/22/19	15/13/10
Silicon	ppm	1	2	3	2
Sodium	ppm	<1	<1	1	<1
Potassium	ppm	<1	<1	2	2



WEAR METALS

Iron	ppm	4	5	6	4
Copper	ppm	1	2	3	2
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	<1	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	2
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	165	324	465	571
Magnesium	ppm	1	3	5	5
Zinc	ppm	822	759	737	769
Phosphorus	ppm	614	651	641	696
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	<1

Diagnosis

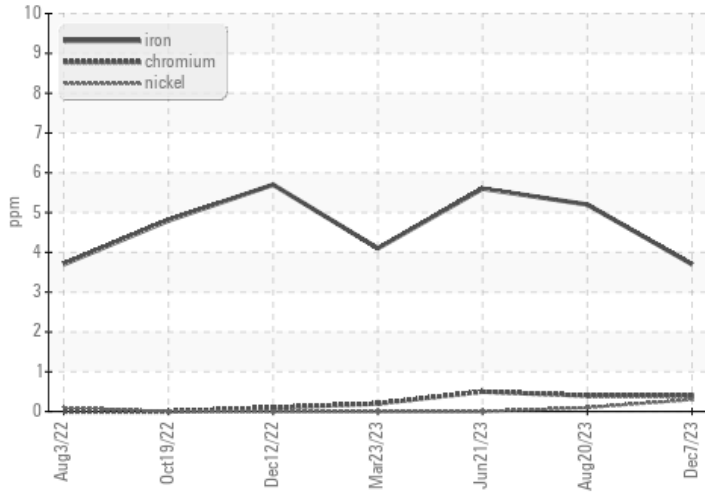
We recommend you service the filters on this component. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The condition of the oil is acceptable for the time in service.

Depot: COMWES
 Unique No: 5694985
 Signed: Wes Davis
 Report Date: 09 Dec 2023

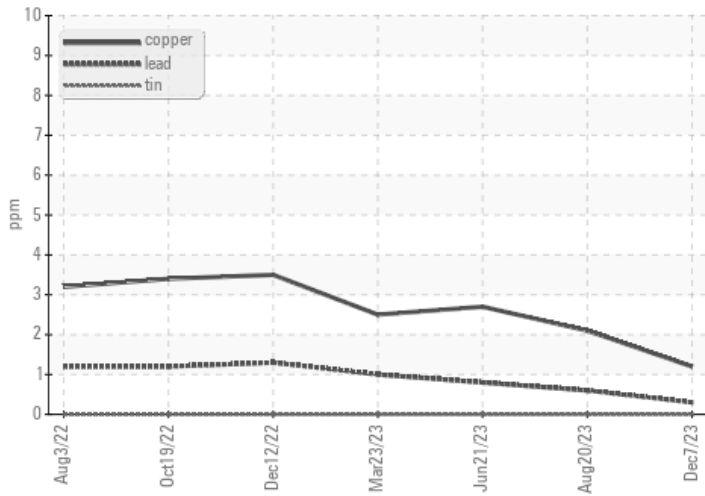


GRAPHS

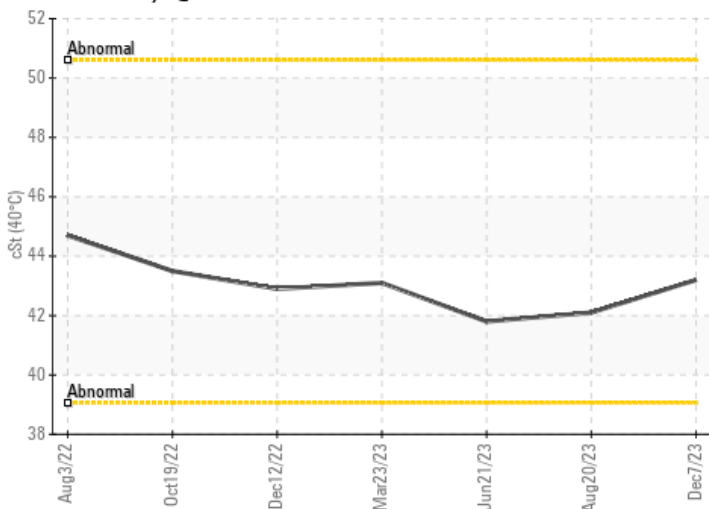
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

