

LIEBHERR

CONSTRUCTION EQUIPMENT



[(363344)] LIEBHERR LH40C 135581-1527 - Hydraulic System

Sample No: LH0296393

Oil Type: {unknown}



Sample Information

Sample Number	LH0296393	LH0278732	LH0277660	LH0270110
Sample Date	07 Jul 2024	15 Feb 2024	07 Dec 2023	25 Sep 2023
Machine Hours	8400	5458	4925	4405
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	N/A
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

CANADA IRON AND METAL CO. LTD.
 3534 DUNDAS STREET WEST
 TORONTO, ON
 CA M6S 2S1
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Oil Condition

Visc @ 40°C	cSt	39.8	41.2	39.4	39.7
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Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		7102	2496	63278	959
Particles >6µm		1547	662	22230	280
Particles >14µm		78	44	1566	28
ISO 4406:1999 (c)		20/18/13	18/17/13	23/22/18	17/15/12
Silicon	ppm	<1	2	4	3
Sodium	ppm	2	1	2	2
Potassium	ppm	<1	<1	<1	<1



Wear Metals

PQ		7	---	---	---
Iron	ppm	99	28	42	36
Copper	ppm	4	3	5	4
Lead	ppm	0	<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	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	1	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	618	519	804	821
Magnesium	ppm	2	2	2	2
Zinc	ppm	645	664	589	592
Phosphorus	ppm	513	552	469	500
Barium	ppm	0	0	<1	<1
Boron	ppm	<1	<1	<1	2

Diagnosis

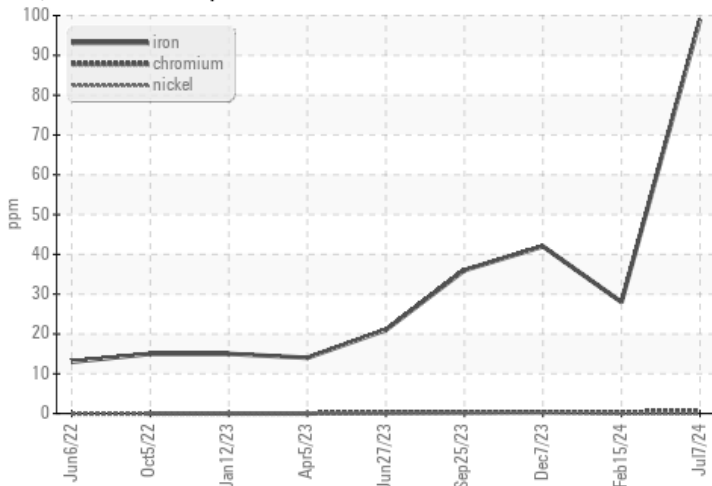
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. NOTE: An increase in the particle count is noted. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CAN353TOR
 Unique No: 5811853
 Signed: Kevin Marson
 Report Date: 09 Jul 2024

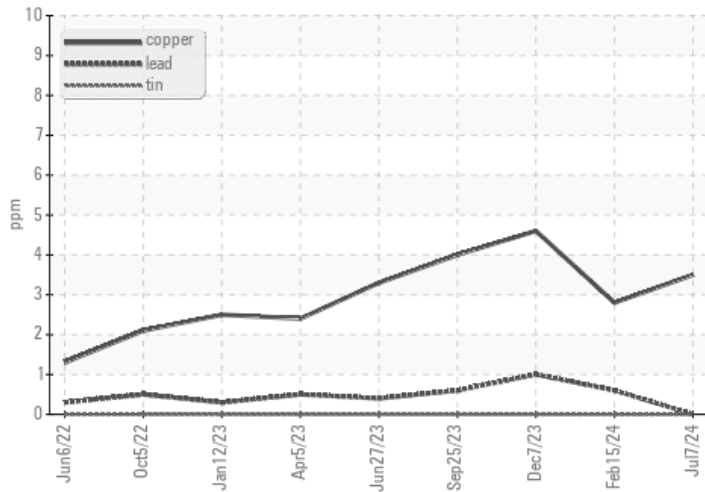


Graphs

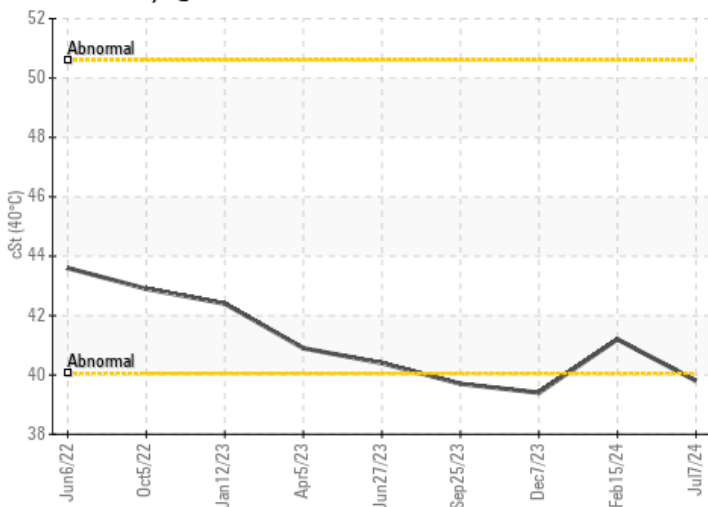
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

