

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0277660
 Oil Type: NOT GIVEN



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

Sample Number	LH0277660	LH0270110	LH0265823	LH0256853
Sample Date	07 Dec 2023	25 Sep 2023	27 Jun 2023	05 Apr 2023
Machine Hours	4925	4405	3831	3230
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 40°C	cSt	39.4	39.7	40.4	40.9
		●	●	●	●



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 63278	● 959	● 1710	● 354
Particles >6µm		● 22230	● 280	● 499	● 90
Particles >14µm		● 1566	● 28	● 46	● 5
ISO 4406:1999 (c)		23/22/18	17/15/12	18/16/13	16/14/10
Silicon	ppm	● 4	● 3	● 3	● 3
Sodium	ppm	● 2	● 2	● 2	● 1
Potassium	ppm	● <1	● <1	● <1	● 0



WEAR METALS

Iron	ppm	● 42	● 36	● 21	● 14
Copper	ppm	● 5	● 4	● 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	● 0
Molybdenum	ppm	0	0	0	0
Nickel	ppm	● <1	● <1	● 0	● 0
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	804	821	830	940
Magnesium	ppm	2	2	3	2
Zinc	ppm	589	592	586	592
Phosphorus	ppm	469	500	532	564
Barium	ppm	<1	<1	0	0
Boron	ppm	<1	2	2	<1

Diagnosis

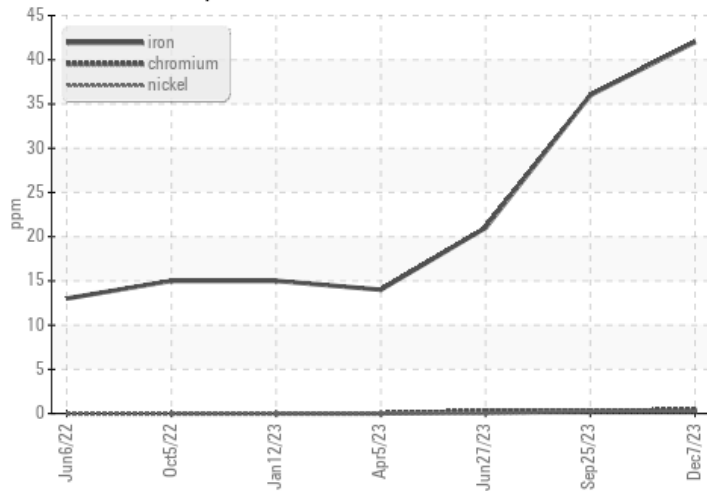
The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Depot: CAN353TOR
 Unique No: 5694984
 Signed: Wes Davis
 Report Date: 09 Dec 2023

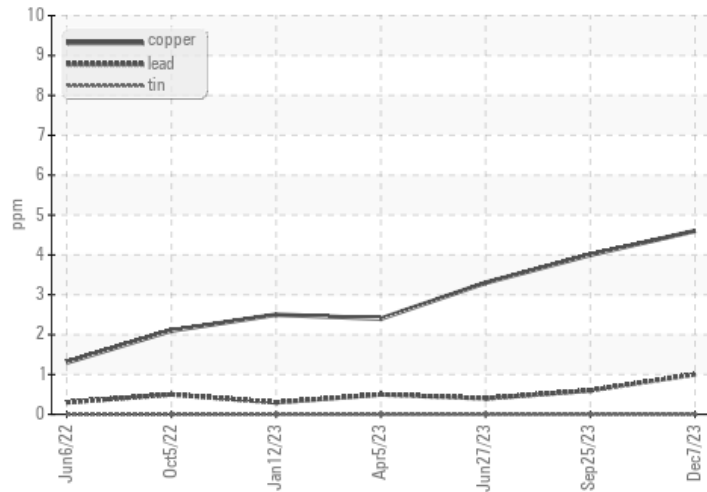


GRAPHS

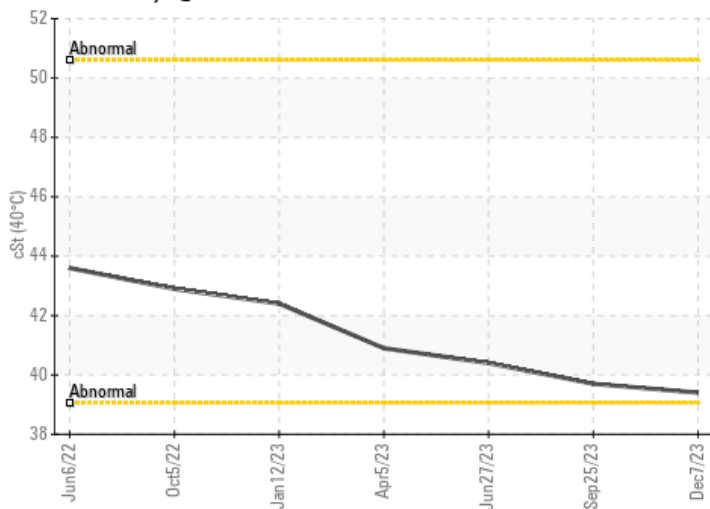
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

