

LIEBHERR

CONSTRUCTION EQUIPMENT



[(340260)] LIEBHERR LH40C 127925-1527 - Hydraulic System

Sample No: LH0276268

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



Sample Information

Sample Number	LH0276268	LH0285113	LH0277655	LH0270149
Sample Date	07 May 2024	15 Feb 2024	07 Dec 2023	27 Sep 2023
Machine Hours	8032	7504	7010	6592
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

CANADA IRON AND METAL CO. LTD.
 3534 DUNDAS STREET WEST
 TORONTO, ON
 CA M6S 2S1
 Contact: Joshua Kiminisky
 josh@canadairon.com
 T:
 F: (416)762-1808



Oil Condition

Visc @ 40°C	cSt	40.3	40.5	40.0	40.0



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6730	19342	27798	5671
Particles >6µm		1622	5216	7837	1470
Particles >14µm		106	275	362	97
ISO 4406:1999 (c)		20/18/14	21/20/15	22/20/16	20/18/14
Silicon	ppm	<1	1	2	2
Sodium	ppm	2	2	2	3
Potassium	ppm	<1	<1	0	<1



Wear Metals

PQ		11	5	7	3
Iron	ppm	103	92	96	91
Copper	ppm	4	3	4	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	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	2	<1	1	<1
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	699	699	771	837
Magnesium	ppm	3	3	2	3
Zinc	ppm	666	670	660	695
Phosphorus	ppm	545	553	521	570
Barium	ppm	0	0	<1	<1
Boron	ppm	<1	<1	<1	<1

Diagnosis

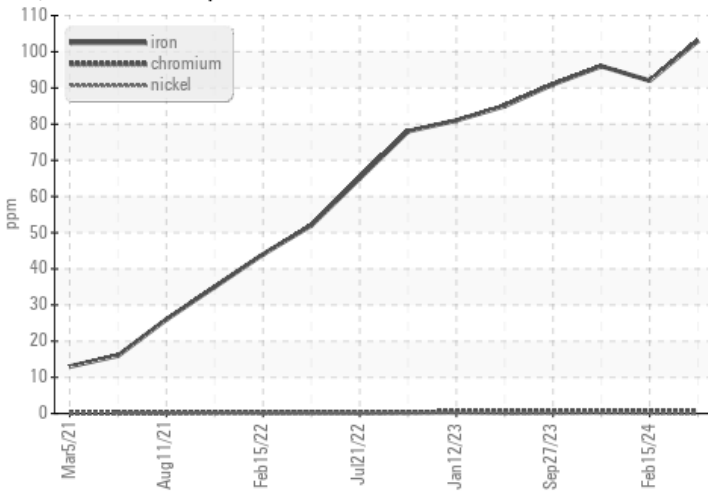
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CAN353TOR
 Unique No: 5775294
 Signed: Kevin Marson
 Report Date: 09 May 2024

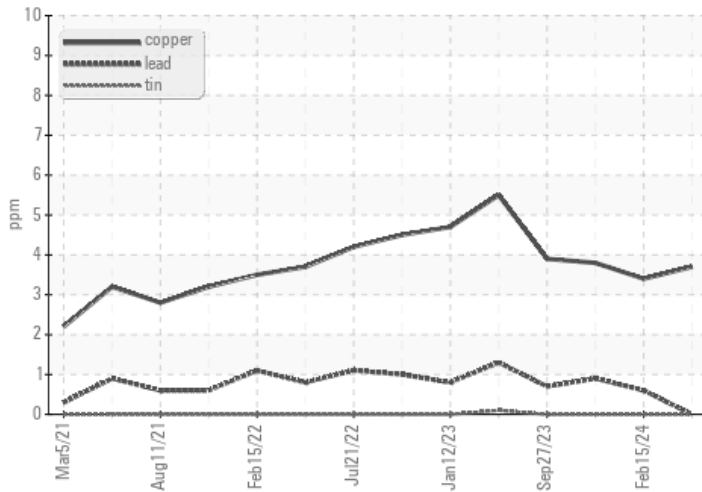


Graphs

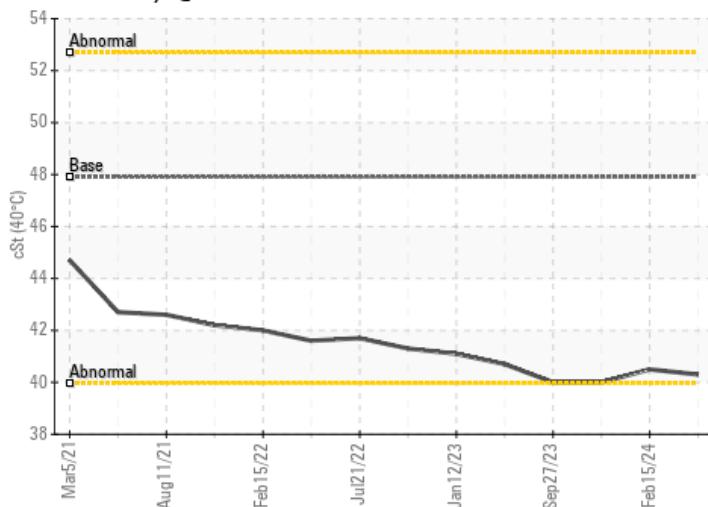
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

