

LIEBHERR

CONSTRUCTION EQUIPMENT



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

Sample No: LH0270149

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0270149	LH0251574	LH0251903	LH0242653
Sample Date	27 Sep 2023	05 Apr 2023	12 Jan 2023	05 Oct 2022
Machine Hours	6592	5459	4907	4272
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Changed	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	40.0	40.7	41.1	41.3
		●	●	●	●



CONTAMINATION

Particles >4µm		● 5671	● 5088	● 5833	● 1957
Particles >6µm		● 1470	● 1048	● 1594	● 384
Particles >14µm		● 97	● 44	● 146	● 9
ISO 4406:1999 (c)		20/18/14	20/17/13	20/18/14	18/16/10
Silicon	ppm	● 2	● 2	● 2	● 2
Sodium	ppm	● 3	● 3	● 3	● 3
Potassium	ppm	● <1	● <1	● <1	● 1



WEAR METALS

PQ		● 3	● 3	● 1	● 0
Iron	ppm	● 91	● 85	● 81	● 78
Copper	ppm	● 4	● 6	● 5	● 4
Lead	ppm	● <1	● 1	● <1	● 1
Tin	ppm	● 0	● <1	● 0	● 0
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 0	● 0	● 0	● 0
Nickel	ppm	● <1	● 0	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	● <1	● 2	● 1	● 1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	837	1291	1292	1304
Magnesium	ppm	● 3	● 4	● 4	● 4
Zinc	ppm	● 695	● 654	● 655	● 663
Phosphorus	ppm	● 570	● 601	● 613	● 616
Barium	ppm	● <1	● 0	● 0	● 0
Boron	ppm	● <1	● <1	● <1	● <1

Diagnosis

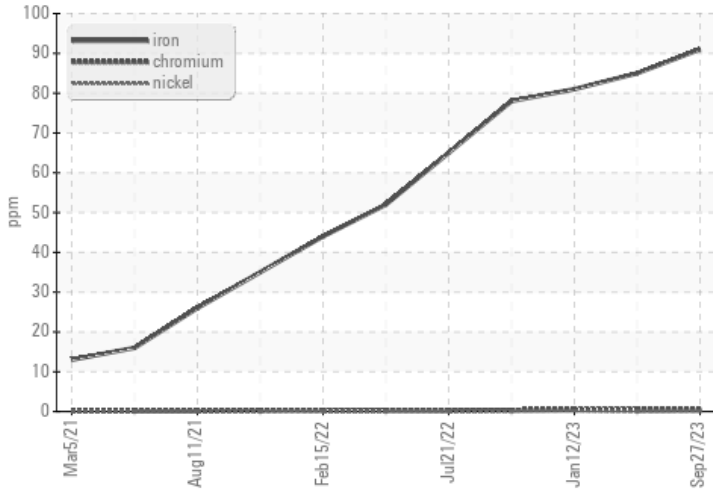
We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: CAN353TOR
 Unique No: 5654957
 Signed: Kevin Marson
 Report Date: 02 Oct 2023

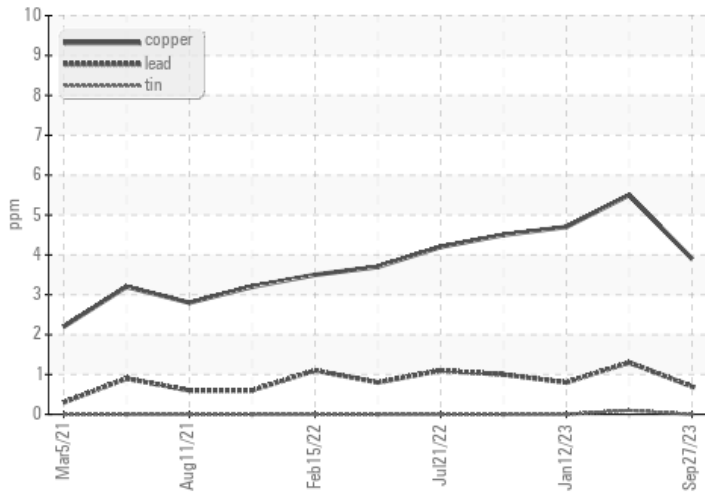


GRAPHS

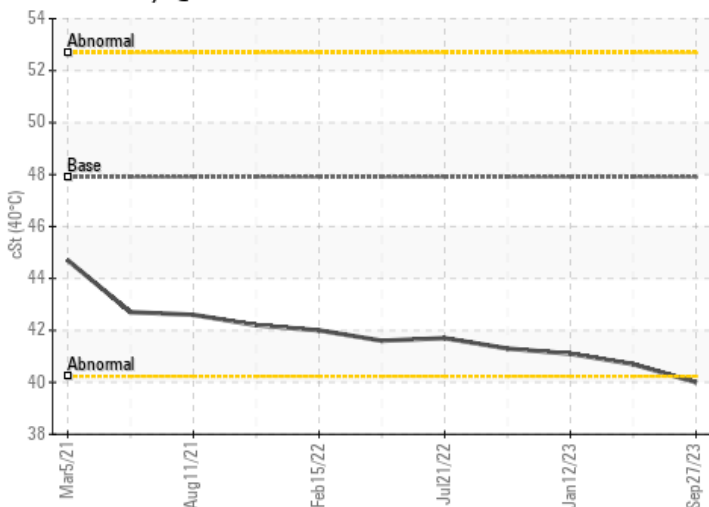
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

