

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L550 044342-1214 - Hydraulic System

Sample No: LH0241973

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0241973	LH0240751	LH0170575	LH0127306
Sample Date	31 Oct 2023	23 Feb 2023	04 May 2020	17 Sep 2018
Machine Hours	9534	8090	3010	1042
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	NORMAL

Yard At A Time Concrete (1988) Ltd.
8155-92nd Street
Delta, BC
CA V4G 0A4
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	45.8	46.1	47.0	46.0
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T:
F:



CONTAMINATION

Particles >4µm		2596	25684	26181	7613
Particles >6µm		227	7427	1124	181
Particles >14µm		12	162	36	8
ISO 4406:1999 (c)		19/15/11	22/20/15	22/17/12	20/15/10
Silicon	ppm	3	3	2	2
Sodium	ppm	<1	<1	0	<1
Potassium	ppm	0	<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. Chromium ppm levels are abnormal. Ring wear is indicated. 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.



WEAR METALS

Iron	ppm	17	9	6	4
Copper	ppm	5	5	4	3
Lead	ppm	4	4	5	5
Tin	ppm	0	<1	<1	0
Aluminum	ppm	1	1	<1	<1
Chromium	ppm	14	10	5	1
Molybdenum	ppm	<1	<1	<1	0
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

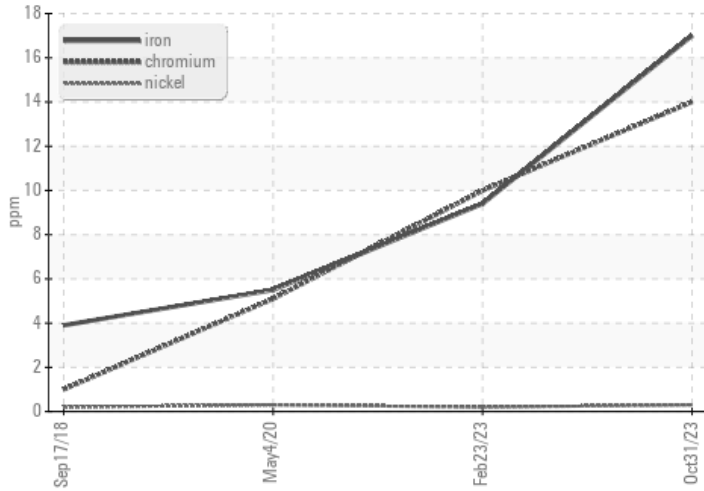
Calcium	ppm	269	307	565	853
Magnesium	ppm	10	11	7	4
Zinc	ppm	279	303	722	768
Phosphorus	ppm	396	462	592	606
Barium	ppm	<1	0	<1	0
Boron	ppm	2	2	1	<1

Depot: YARDEL
Unique No: 5671325
Signed: Kevin Marson
Report Date: 07 Nov 2023

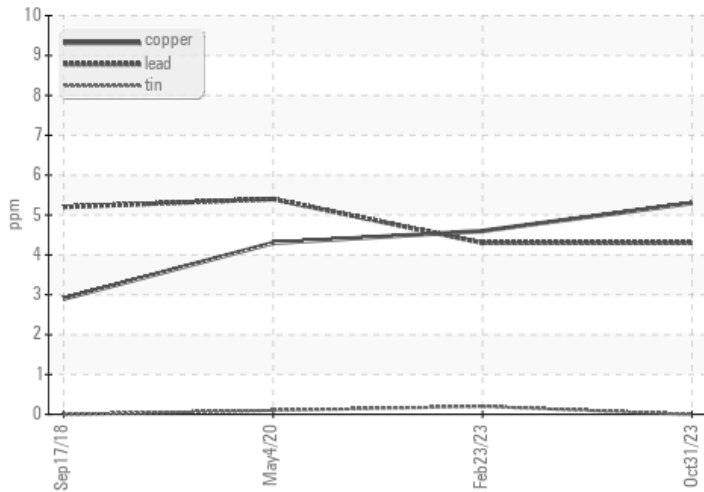


GRAPHS

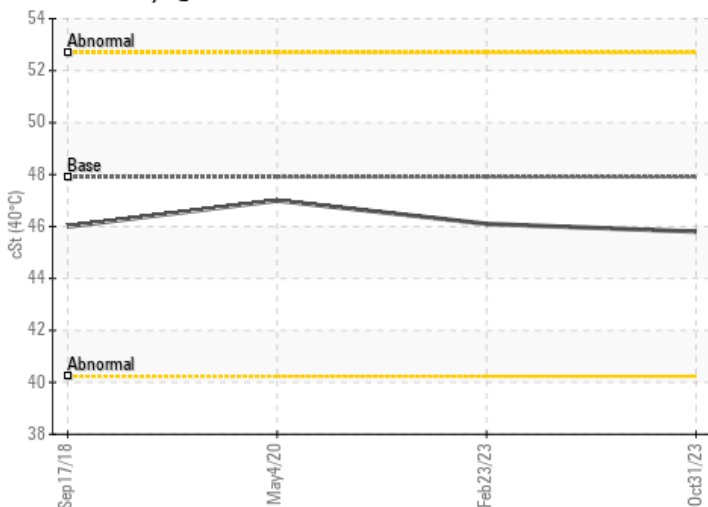
● Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

