

LIEBHERR

CONSTRUCTION EQUIPMENT



[(351064)] 122398-1216 - Hydraulic System

Sample No: LH0281244

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

American Iron and Metal

75 Steel City Court

Hamilton, ON

CA L8H 3Y2

Contact: Heavy Equipment

hamiltonmobileassetmaintenance@aim-recycling.com

T: (905)547-5533

F: (905)544-5671

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you check for visible metal particles in the oil. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. We suspect that the abnormal contaminant(s) is the result of incorrect sampling technique. DISCLAIMER: Interpretation of results is based on the sample as received from the customer. The condition of the sample and the method of sampling cannot be verified. Light concentration of visible metal present. Light concentration of visible dirt/debris present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORMATION

Sample Number		LH0281244	LH0202591	---	---
Sample Date		07 Feb 2024	20 Oct 2021	---	---
Machine Hours		5387	584	---	---
Oil Hours		0	0	---	---
Oil Changed		Changed	Changed	---	---
Sample Status		ABNORMAL	NORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	● 42.5	● 44.0	---	---
-------------	-----	--------	--------	-----	-----



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		● 18425	● 2965	---	---
Particles >6µm		● 4069	● 472	---	---
Particles >14µm		● 125	● 23	---	---
ISO 4406:1999 (c)		21/19/14	19/16/12	---	---
Silicon	ppm	● <1	● <1	---	---
Sodium	ppm	● <1	● <1	---	---
Potassium	ppm	● <1	● 1	---	---



WEAR METALS

Iron	ppm	● 50	● 11	---	---
Copper	ppm	● 3	● 2	---	---
Lead	ppm	● <1	● <1	---	---
Tin	ppm	● 0	● <1	---	---
Aluminum	ppm	● <1	● <1	---	---
Chromium	ppm	● <1	● <1	---	---
Molybdenum	ppm	● 0	<1	---	---
Nickel	ppm	● 0	● <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	● <1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

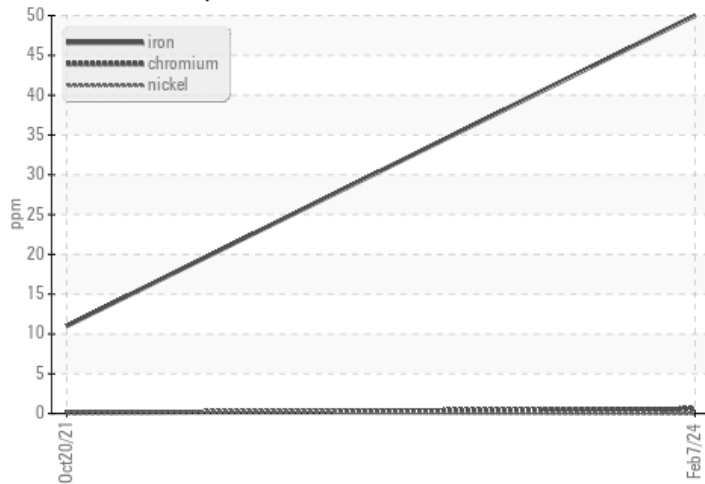
Calcium	ppm	● 555	944	---	---
Magnesium	ppm	● 4	5	---	---
Zinc	ppm	● 752	677	---	---
Phosphorus	ppm	● 637	601	---	---
Barium	ppm	● 0	0	---	---
Boron	ppm	● <1	<1	---	---

Depot: AMEHAM
 Unique No: 5736418
 Signed: Kevin Marson
 Report Date: 04 Mar 2024

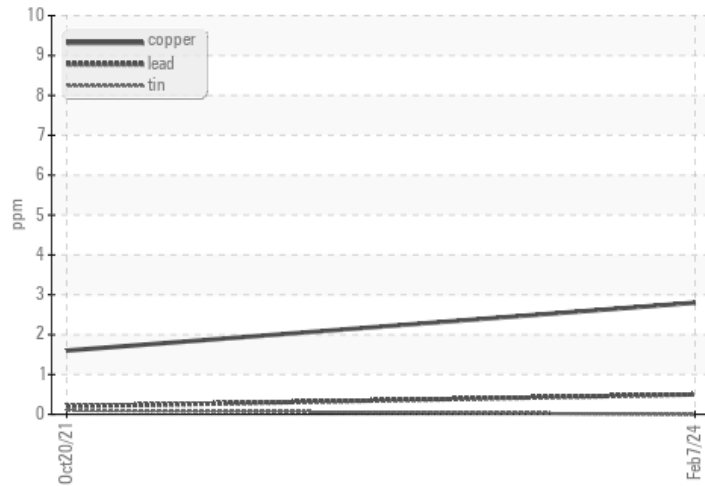


GRAPHS

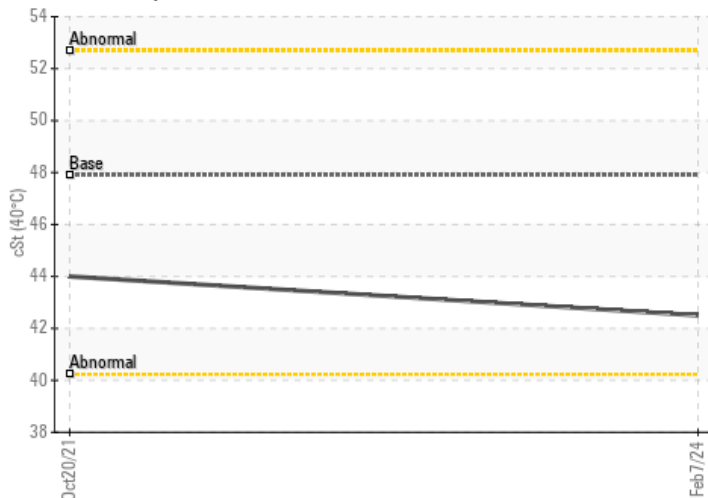
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Filter (Magn: 100 x)

