

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR LH22M 110435-1250 - Hydraulic System

Sample No: LH0281045

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH0281045	LH0283999	LH0241991	LH0260469
Sample Date	20 Mar 2024	31 Jan 2024	23 Oct 2023	14 Aug 2023
Machine Hours	12555	12137	11524	11129
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

ECOWASTE INDUSTRIES

4 SPRUCE ST  
NEW WESTMINSTER, BC  
CA V3L 5G6  
Contact: Service Manager



#### OIL CONDITION

Visc @ 40°C	cSt	43.2	43.5	43.4	44.4
Visc @ 100°C	cSt	---	---	8.4	---
Viscosity Index (VI)	Scale	---	---	173	---

T:  
F:



#### CONTAMINATION

Water	%	NEG	0.015	NEG	NEG
Particles >4µm		39053	1111	8572	1491
Particles >6µm		11497	168	2565	257
Particles >14µm		708	7	171	19
ISO 4406:1999 (c)		22/21/17	17/15/10	20/19/15	18/15/11
Silicon	ppm	2	1	3	2
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	<1	<1	<1

#### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



#### WEAR METALS

Iron	ppm	40	31	22	15
Copper	ppm	3	2	2	2
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	7	6	6	4
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	103	105	102	106
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	840	829	848	853
Phosphorus	ppm	641	652	632	687
Barium	ppm	0	0	<1	0
Boron	ppm	0	0	<1	<1

Depot: ECONEW  
Unique No: 5750106  
Signed: Wes Davis  
Report Date: 28 Mar 2024

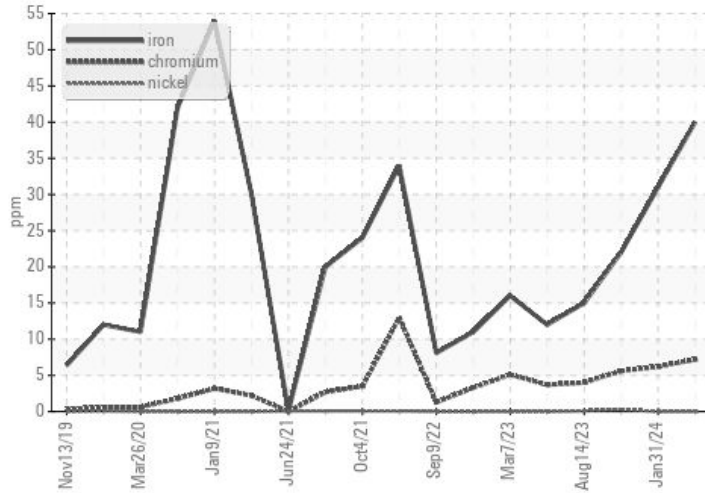
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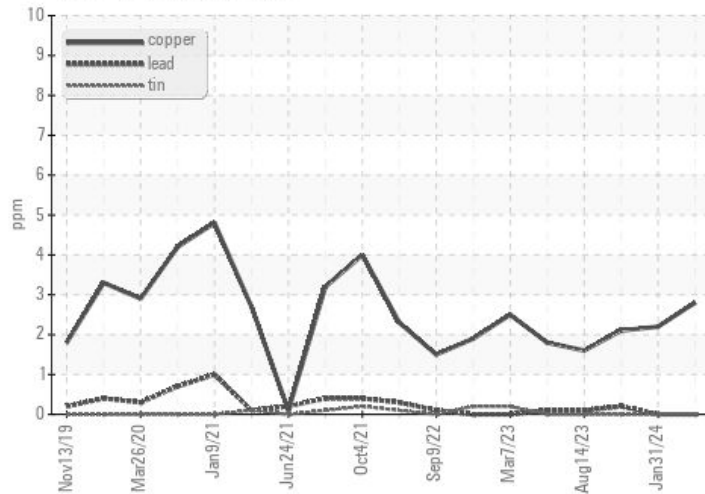


### GRAPHS

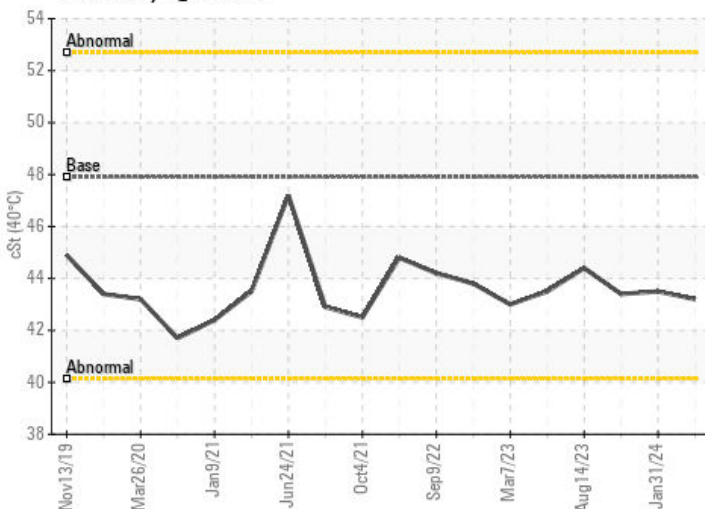
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

