

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH22M 110435-1250 - Hydraulic System

Sample No: LH0288118

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



Sample Information

Sample Number	LH0288118	LH0281045	LH0283999	LH0241991
Sample Date	30 May 2024	20 Mar 2024	31 Jan 2024	23 Oct 2023
Machine Hours	13142	12555	12137	11524
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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



Oil Condition

Visc @ 40°C	cSt	42.6	43.2	43.5	43.4
Visc @ 100°C	cSt	---	---	---	8.4
Viscosity Index (VI)	Scale	---	---	---	173

T:
F:



Contamination

Water	%	NEG	NEG	0.015	NEG
Particles >4µm		33908	39053	1111	8572
Particles >6µm		11746	11497	168	2565
Particles >14µm		998	708	7	171
ISO 4406:1999 (c)		22/21/17	22/21/17	17/15/10	20/19/15
Silicon	ppm	1	2	1	3
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	0	<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	56	40	31	22
Copper	ppm	4	3	2	2
Lead	ppm	0	0	0	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	8	7	6	6
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



Additives

Calcium	ppm	109	103	105	102
Magnesium	ppm	<1	<1	<1	<1
Zinc	ppm	835	840	829	848
Phosphorus	ppm	635	641	652	632
Barium	ppm	0	0	0	<1
Boron	ppm	<1	0	0	<1

Depot: ECONEW
 Unique No: 5798977
 Signed: Wes Davis
 Report Date: 13 Jun 2024

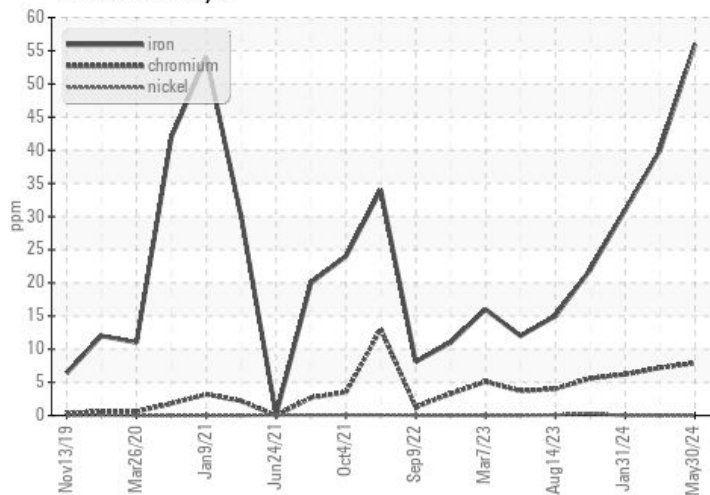
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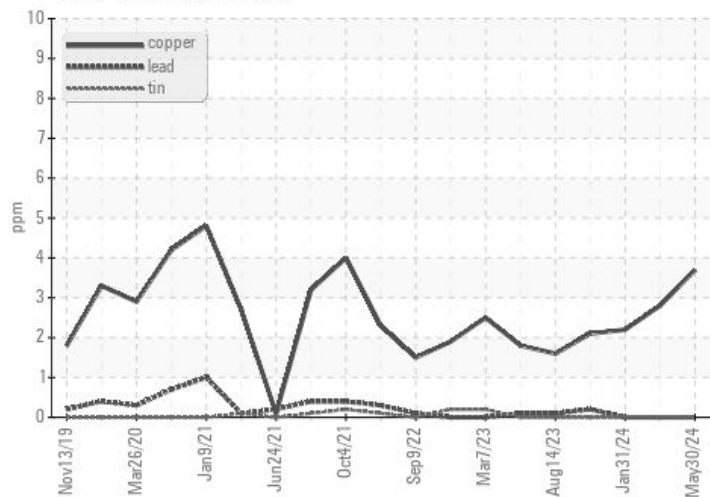


Graphs

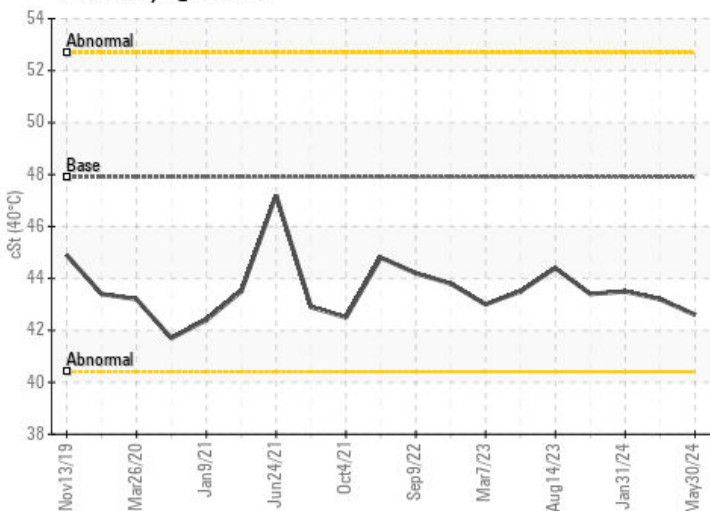
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

