

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(339786)] LIEBHERR R920 047100-1705 - Hydraulic System

Sample No: LH0288012

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0288012	LH0242088	LH0260638	LH0240668
Sample Date	18 Apr 2024	07 Nov 2023	28 Apr 2023	04 Oct 2022
Machine Hours	3616	3040	2450	1988
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

**ECOWASTE INDUSTRIES LTD.**  
 15111 WILLIAMS ROAD  
 RICHMOND, BC  
 CA V6W 1G9  
 Contact: Service Manager



#### Oil Condition

Visc @ 40°C	cSt	41.1	41.5	41.4	41.0
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T: (604)277-1410  
 F:



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		3967	222	4480	38211
Particles >6µm		631	57	1009	1591
Particles >14µm		25	6	70	68
ISO 4406:1999 (c)		19/16/12	15/13/10	19/17/13	22/18/13
Silicon	ppm	2	4	4	4
Sodium	ppm	2	2	2	<1
Potassium	ppm	<1	<1	2	2

#### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The condition of the oil is acceptable for the time in service.



#### Wear Metals

Iron	ppm	47	45	46	47
Copper	ppm	8	9	10	9
Lead	ppm	1	2	2	2
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additives

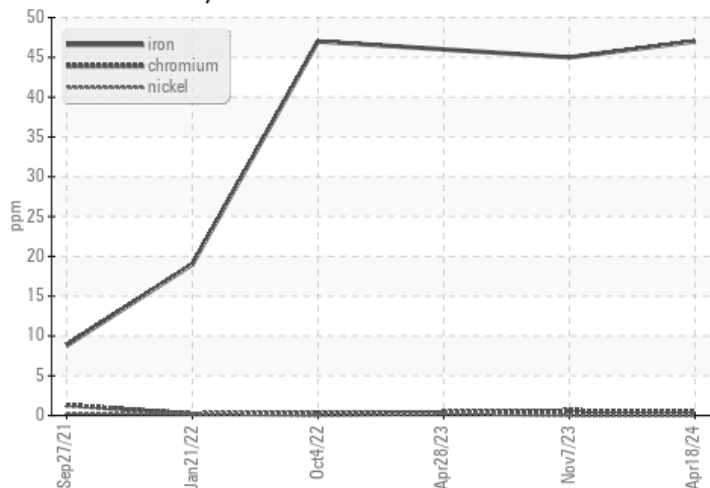
Calcium	ppm	244	246	299	330
Magnesium	ppm	3	2	3	3
Zinc	ppm	592	634	612	579
Phosphorus	ppm	490	512	576	549
Barium	ppm	0	<1	0	0
Boron	ppm	<1	<1	<1	0

Depot: ECORIC  
 Unique No: 5763764  
 Signed: Wes Davis  
 Report Date: 23 Apr 2024

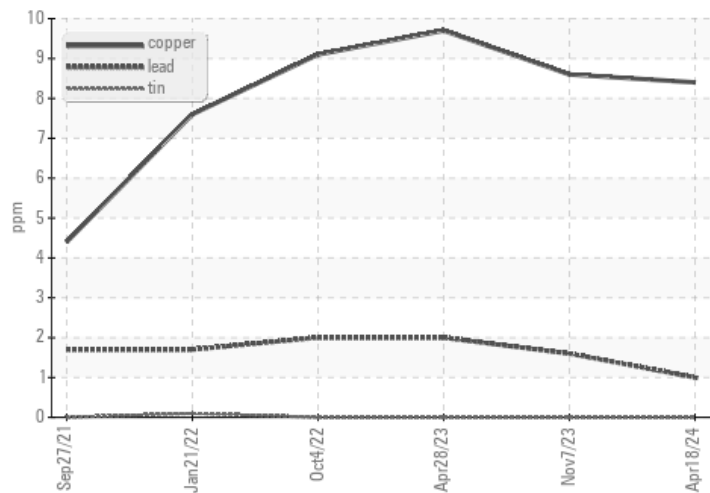


### Graphs

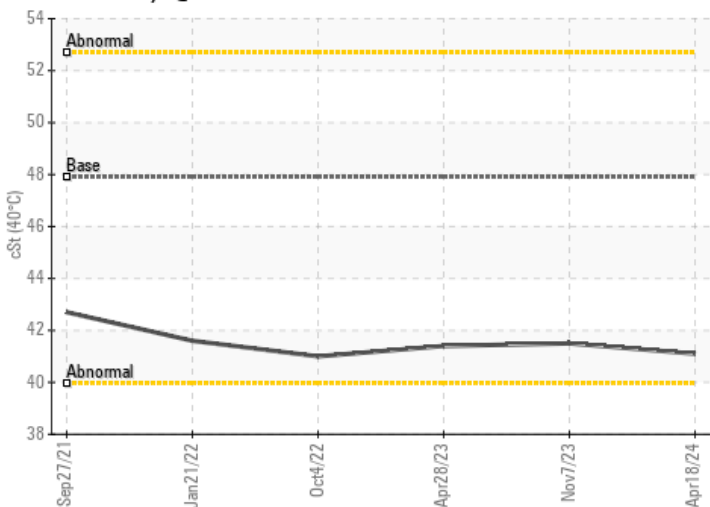
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

