

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A904C079128-1004 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### SAMPLE INFORMATION

Sample Number	LH	LH	LH0235235	LH
Sample Date	13 Nov 2023	20 Mar 2023	20 Sep 2022	15 Nov 2021
Machine Hours	17558	16723	15986	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

**ARMAND DUHAMEL et FILS INC.**  
 778 RUE DE L' EGLISE  
 ST-IGNACE-STANDBRIDGE, QC  
 CA J0J 1Y0  
 Contact:



#### OIL CONDITION

Visc @ 40°C	cSt	43.5	44.1	43.1	42.9
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T:  
F:



#### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5306	3174	1811	793
Particles >6µm		1097	750	160	47
Particles >14µm		50	76	16	2
ISO 4406:1999 (c)		20/17/13	19/17/13	18/14/11	17/13/9
Silicon	ppm	<1	<1	1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	0	<1	<1	<1

#### 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	55	41	37	46
Copper	ppm	3	2	4	6
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	2	2	3	5
Molybdenum	ppm	0	0	0	0
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	<1	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### ADDITIVES

Calcium	ppm	74	91	94	108
Magnesium	ppm	22	8	9	1
Zinc	ppm	625	702	643	513
Phosphorus	ppm	496	607	566	438
Barium	ppm	<1	0	0	0
Boron	ppm	<1	<1	<1	<1

Depot: ARMSTI  
 Unique No: 5682184  
 Signed: Wes Davis  
 Report Date: 20 Nov 2023

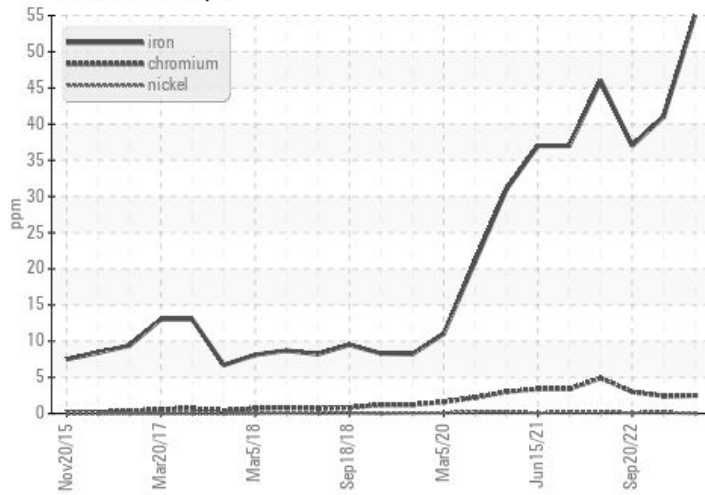
# LIEBHERR

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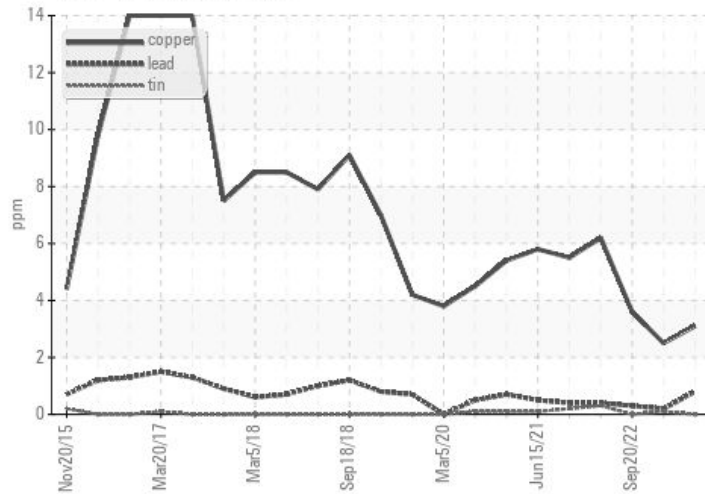


### GRAPHS

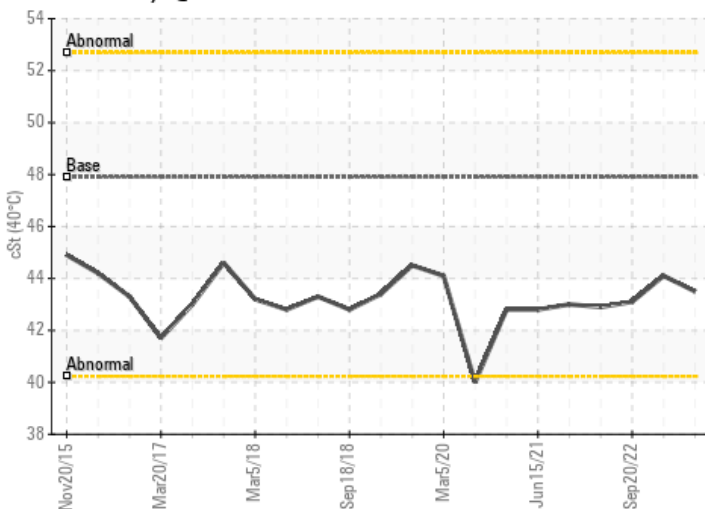
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

