

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [[0]] 062154-1049 - Hydraulic System

Sample No: LH0291116

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Sample Information

Sample Number	LH0291116	LH0123032	LH0192904	LH0222351
Sample Date	13 May 2024	26 Oct 2023	22 Jun 2023	10 May 2022
Machine Hours	12610	12421	12090	11897
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	NORMAL	ATTENTION

#### American Iron and Metal

2555 Sheffield Road  
Ottawa, ON  
CA K1B 3V6  
Contact: Marc Giguere  
magiguere@aim-global.com  
T: (438)334-4682  
F: (613)745-0692



#### Oil Condition

Visc @ 40°C	cSt	46.3	46.4	48.3	48.6
		●	●	●	●



#### Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		● 17581	● 23085	● 13036	● 23765
Particles >6µm		● 357	● 3097	● 2519	● 1010
Particles >14µm		● 8	● 50	● 81	● 79
ISO 4406:1999 (c)		21/16/10	22/19/13	21/19/14	22/17/13
Silicon	ppm	● <1	● 1	● 1	● 1
Sodium	ppm	● <1	● <1	● <1	● <1
Potassium	ppm	● <1	● 0	● <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	● 7	● 7	● 6	● 6
Copper	ppm	● 2	● 2	● 2	● 1
Lead	ppm	● 0	● <1	● <1	● 0
Tin	ppm	● 0	● 0	● 0	● <1
Aluminum	ppm	● <1	● <1	● <1	● <1
Chromium	ppm	● <1	● <1	● <1	● <1
Molybdenum	ppm	● 0	● <1	● 1	● 1
Nickel	ppm	● 0	● <1	● <1	● <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	● 0	● 0	● 0	● 0
Vanadium	ppm	0	0	0	0



#### Additives

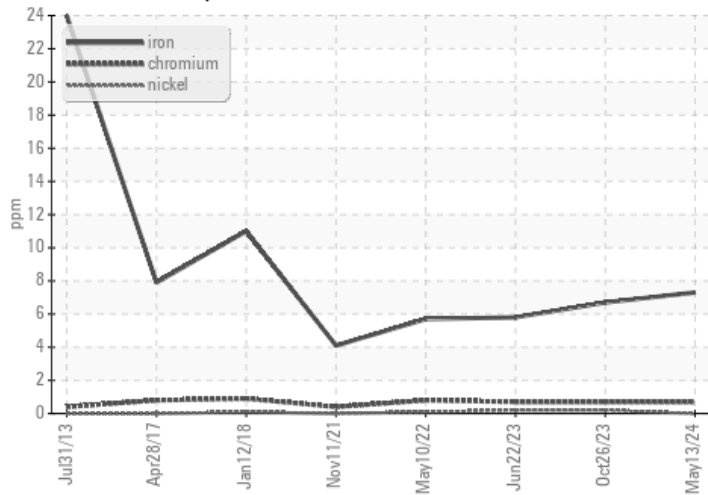
Calcium	ppm	● 259	● 269	● 184	● 182
Magnesium	ppm	● 7	● 7	● 12	● 8
Zinc	ppm	● 568	● 579	● 583	● 617
Phosphorus	ppm	● 467	● 483	● 496	● 528
Barium	ppm	● 0	● <1	● 0	● 0
Boron	ppm	● 2	● 2	● 3	● 3

Depot: BAKOTT  
Unique No: 5776846  
Signed: Wes Davis  
Report Date: 16 May 2024

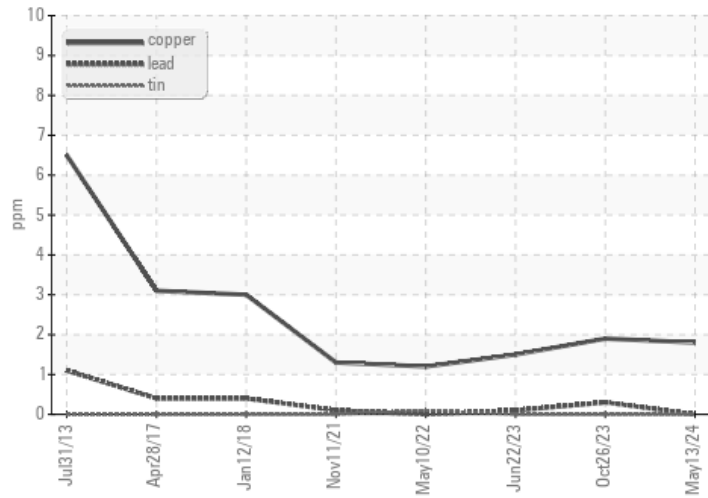


### Graphs

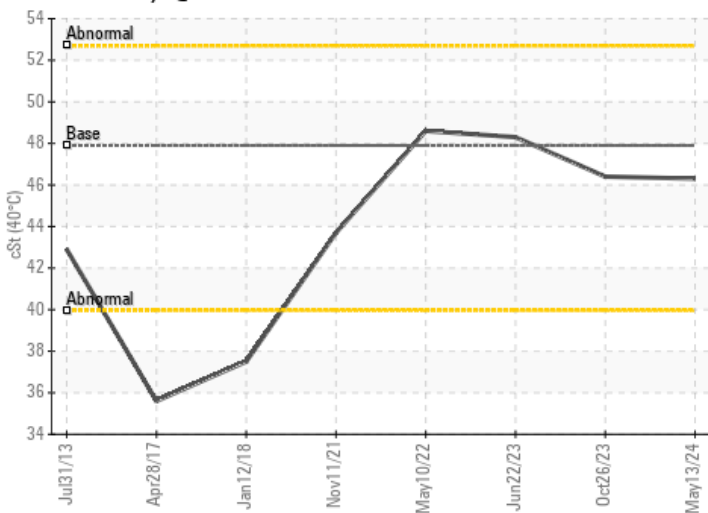
#### Ferrous Alloys



#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count

