

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR A944C060318-194 - Hydraulic System

Sample No: LH0281554

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0281554	LH0276114	LH0261361	LH0251355
Sample Date	23 Jan 2024	14 Sep 2023	02 May 2023	09 Jan 2023
Machine Hours	15027	14629	14126	13618
Oil Hours	0	0	0	0
Oil Changed	Not Changd	N/A	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

GERDAU AMERISTEEL

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OIL CONDITION

Visc @ 40°C	cSt	39.2	38.7	41.7	43.1



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		17914	48456	4711	15906
Particles >6µm		1042	10357	1252	3971
Particles >14µm		41	1035	84	132
ISO 4406:1999 (c)		21/17/13	23/21/17	19/17/14	21/19/14
Silicon	ppm	1	<1	<1	<1
Sodium	ppm	<1	1	<1	<1
Potassium	ppm	<1	3	<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 oil viscosity is lower than typical, possibly indicating the addition of lighter grade oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	5	4	5	3
Copper	ppm	2	2	2	1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	0	0	0
Aluminum	ppm	<1	<1	0	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	32	<1	<1	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

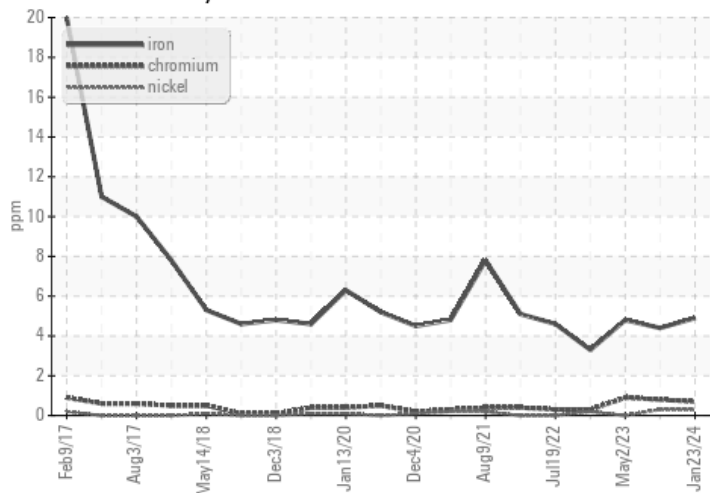
Calcium	ppm	96	100	131	129
Magnesium	ppm	14	11	12	9
Zinc	ppm	608	647	710	776
Phosphorus	ppm	517	549	639	652
Barium	ppm	0	0	0	0
Boron	ppm	<1	<1	2	2

Depot: GERCON
Unique No: 5720270
Signed: Kevin Marson
Report Date: 26 Jan 2024

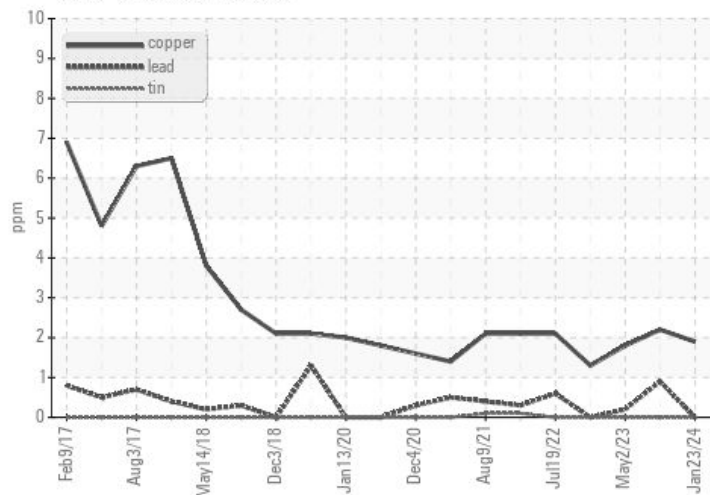


GRAPHS

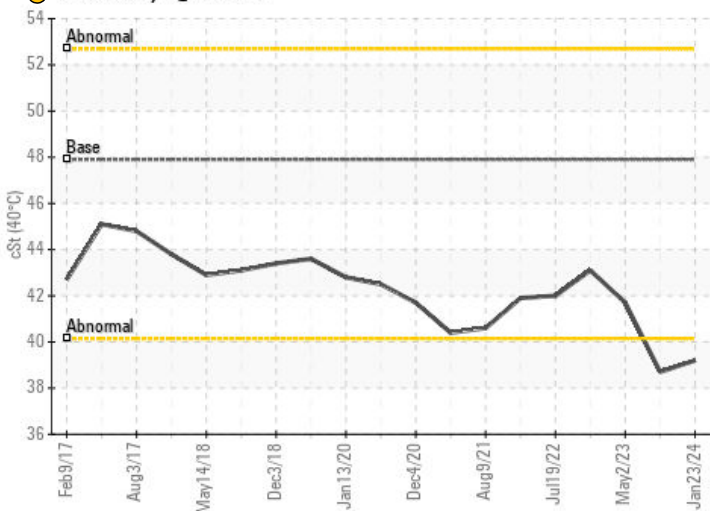
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

