

LIEBHERR

CONSTRUCTION EQUIPMENT



113718-1216 - Hydraulic System

Sample No: LH

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH	LH0251200	LH0234878	LH
Sample Date	30 Oct 2023	23 Feb 2023	22 Jul 2022	07 Feb 2022
Machine Hours	5676	4729	4000	0
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	N/A
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

American Iron and Metal

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Ottawa, ON
CA K1B 3V6
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OIL CONDITION

Visc @ 40°C	cSt	43.6	42.6	42.2	43.0



CONTAMINATION

Water	%	---	0.023	---	0.017
Particles >4µm		1000	4151	7910	677
Particles >6µm		277	802	2240	88
Particles >14µm		25	49	160	5
ISO 4406:1999 (c)		17/15/12	19/17/13	20/18/14	17/14/10
Silicon	ppm	1	2	2	1
Sodium	ppm	2	2	3	2
Potassium	ppm	0	<1	2	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

PQ		---	0	---	---
Iron	ppm	53	66	56	52
Copper	ppm	3	4	4	4
Lead	ppm	<1	<1	<1	<1
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	<1	<1	0	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	543	1015	1118	1141
Magnesium	ppm	10	18	21	17
Zinc	ppm	767	664	680	691
Phosphorus	ppm	594	616	567	610
Barium	ppm	<1	0	0	0
Boron	ppm	1	2	3	2

Depot: BAKOTT
Unique No: 5671737
Signed: Wes Davis
Report Date: 08 Nov 2023

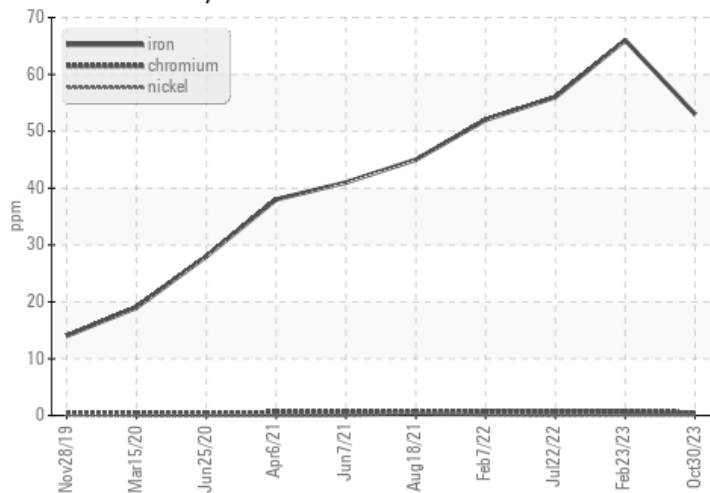
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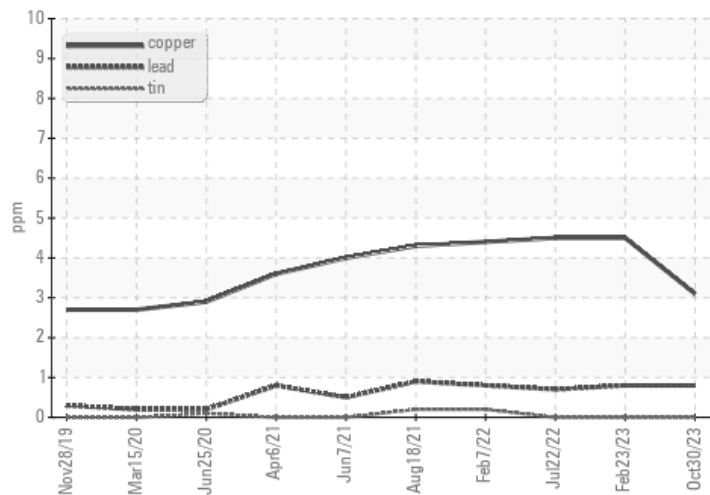


GRAPHS

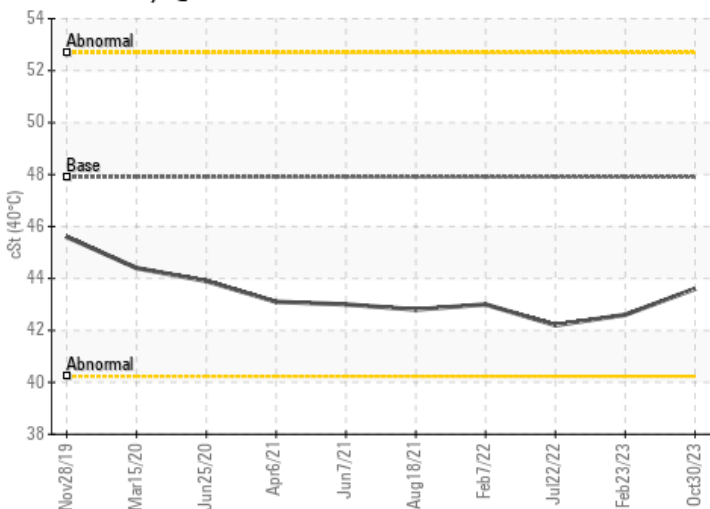
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

