

LIEBHERR

CONSTRUCTION EQUIPMENT



100881- Hydraulic System

Sample No: LH0289626

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



Sample Information

Sample Number	LH0289626	LH0278804	LH	LH0153900
Sample Date	01 May 2024	20 Nov 2023	16 Jun 2023	31 Oct 2022
Machine Hours	6972	6420	5929	5427
Oil Hours	0	0	0	0
Oil Changed	Not Changd	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

American Iron and Metal

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Ottawa, ON
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Oil Condition

Visc @ 40°C	cSt	41.4	41.2	41.7	42.6
Acid Number (AN)	mg KOH/g	---	---	---	0.87



Contamination

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		488	730	10110	517
Particles >6µm		104	162	1330	63
Particles >14µm		6	16	9	4
ISO 4406:1999 (c)		16/14/10	17/15/11	21/18/10	16/13/9
Silicon	ppm	0	1	<1	<1
Sodium	ppm	1	2	<1	1
Potassium	ppm	<1	0	<1	0

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	10	10	9	8
Copper	ppm	4	5	4	4
Lead	ppm	0	1	<1	<1
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	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



Additives

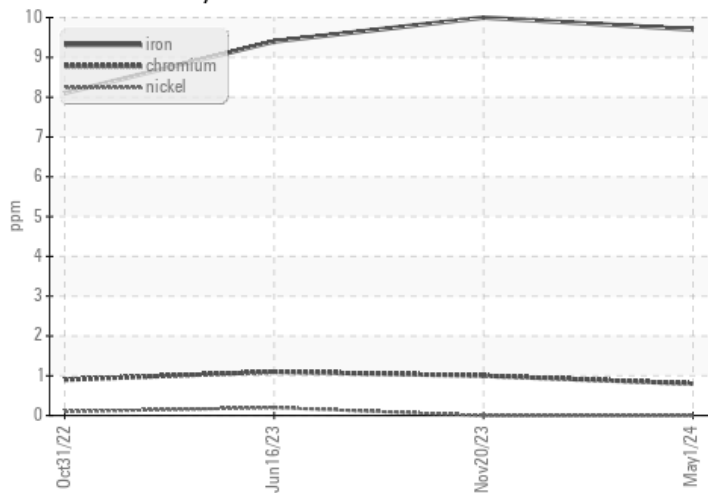
Calcium	ppm	341	386	383	408
Magnesium	ppm	5	7	4	2
Zinc	ppm	626	673	676	665
Phosphorus	ppm	493	535	590	582
Barium	ppm	0	<1	0	0
Boron	ppm	<1	1	<1	<1

Depot: BAKOTT
Unique No: 5773958
Signed: Wes Davis
Report Date: 03 May 2024

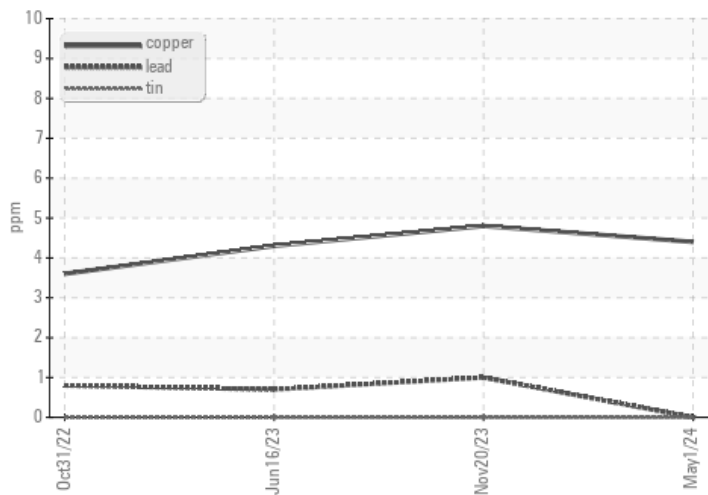


Graphs

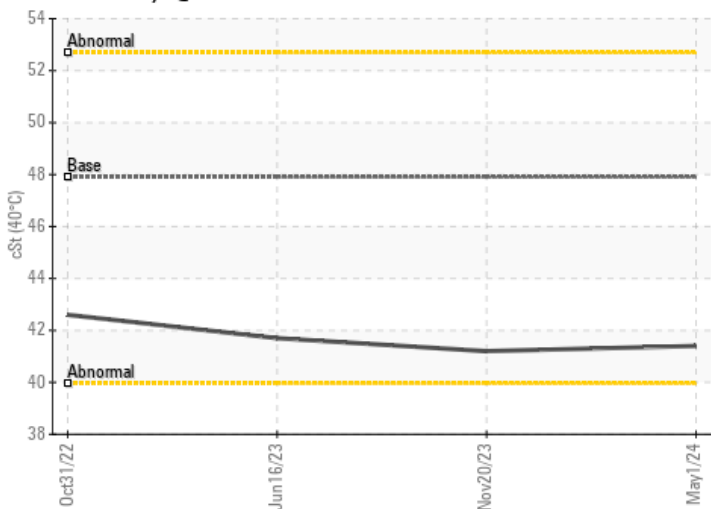
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

