

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR L580 071613-1760 - Hydraulic System

Sample No: LH0292403

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



Sample Information

Sample Number	LH0292403	LH0277093	LH0260008	---
Sample Date	22 Jun 2024	14 Oct 2023	27 Jun 2023	---
Machine Hours	2202	1054	519	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

BIRCH HILL CONSTRUCTION
 11 MCELROY ST.
 MONCTON, NB
 CA E1C 9T2
 Contact: Service Manager



Oil Condition

Visc @ 40°C	cSt	43.3	45.2	45.2	---
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T:
F:



Contamination

Water	%	NEG	NEG	NEG	---
Particles >4µm		8167	12651	10724	---
Particles >6µm		894	1140	632	---
Particles >14µm		42	19	18	---
ISO 4406:1999 (c)		20/17/13	21/17/11	21/16/11	---
Silicon	ppm	4	3	3	---
Sodium	ppm	1	1	1	---
Potassium	ppm	2	<1	<1	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. 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. Additive levels indicate the addition of a different brand, or type of oil. The condition of the oil is acceptable for the time in service.



Wear Metals

Iron	ppm	8	5	3	---
Copper	ppm	2	1	1	---
Lead	ppm	4	3	1	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	1	<1	---
Chromium	ppm	1	<1	<1	---
Molybdenum	ppm	5	5	6	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	0	---
Vanadium	ppm	0	0	0	---



Additives

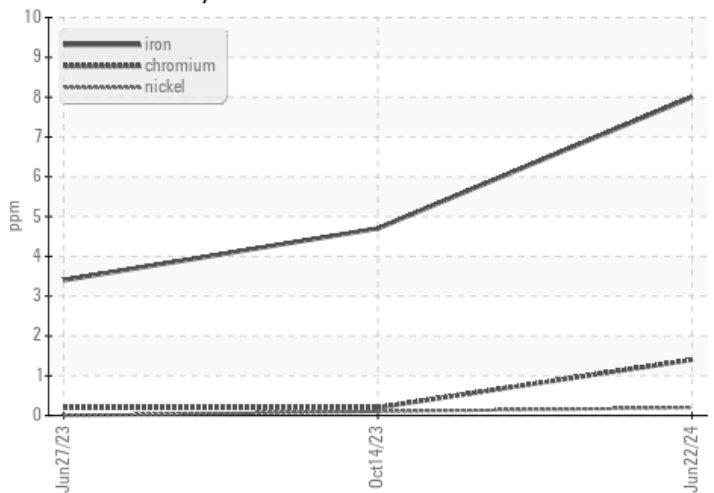
Calcium	ppm	924	951	926	---
Magnesium	ppm	42	43	44	---
Zinc	ppm	755	780	777	---
Phosphorus	ppm	636	667	704	---
Barium	ppm	<1	1	<1	---
Boron	ppm	9	9	11	---

Depot: BIRMION
 Unique No: 5802158
 Signed: Kevin Marson
 Report Date: 02 Jul 2024

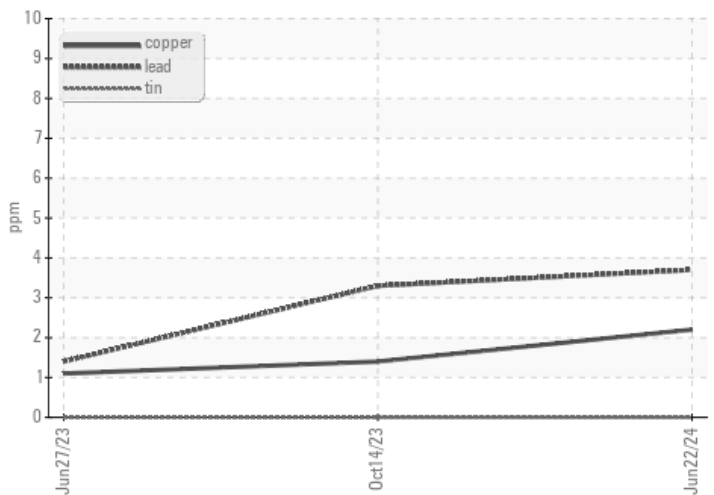


Graphs

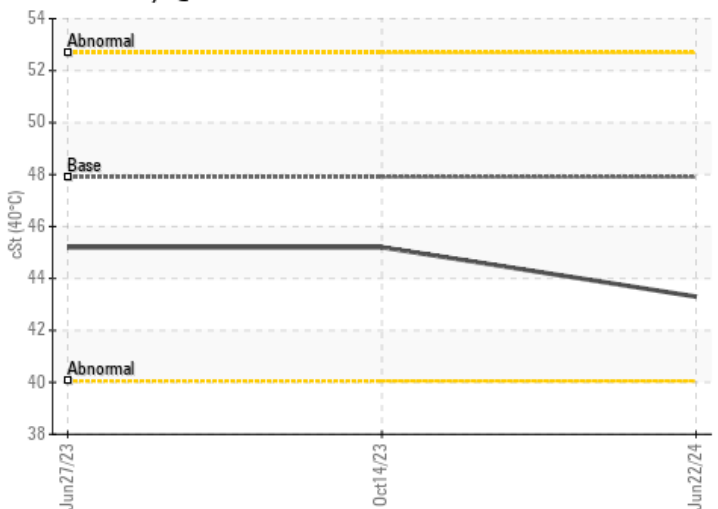
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

