

LIEBHERR

CONSTRUCTION EQUIPMENT



LIEBHERR LH30M 144578-1253 - Hydraulic System

Sample No: LH0278615

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



SAMPLE INFORMATION

Sample Number	LH0278615	LH	LH0250057	---
Sample Date	15 Jan 2024	04 Oct 2023	22 Mar 2023	---
Machine Hours	1200	0	498	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

Industrial Metals

550 Messier St.
Winnipeg, MB
CA R2J 0G5
Contact: Service Manager



OIL CONDITION

Visc @ 40°C	cSt	44.0	44.2	48.4	---
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T:
F:



CONTAMINATION

Water	%	NEG	0.056	0.500	---
Particles >4µm		8061	28895	108453	---
Particles >6µm		2087	11613	32994	---
Particles >14µm		136	888	2634	---
ISO 4406:1999 (c)		20/18/14	22/21/17	24/22/19	---
Silicon	ppm	3	3	2	---
Sodium	ppm	2	2	<1	---
Potassium	ppm	<1	<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	21	20	15	---
Copper	ppm	5	6	3	---
Lead	ppm	<1	1	2	---
Tin	ppm	0	0	0	---
Aluminum	ppm	1	<1	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	0	0	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	0	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

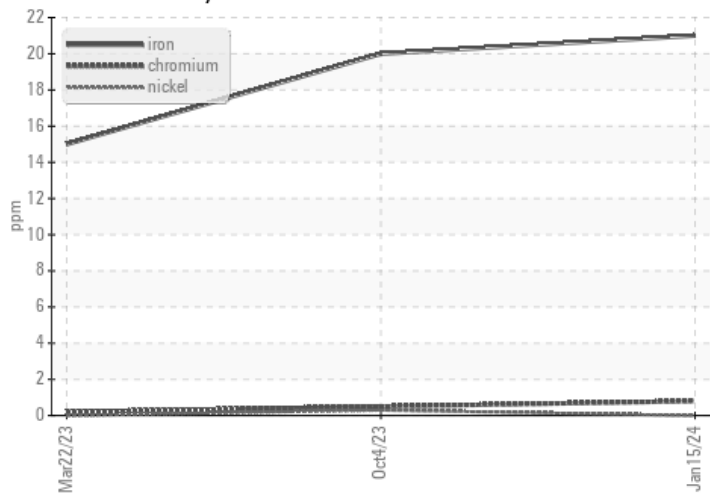
Calcium	ppm	1108	1211	1320	---
Magnesium	ppm	3	3	3	---
Zinc	ppm	712	714	700	---
Phosphorus	ppm	639	614	696	---
Barium	ppm	0	<1	0	---
Boron	ppm	<1	1	1	---

Depot: IND550WIN
Unique No: 5710105
Signed: Kevin Marson
Report Date: 18 Jan 2024

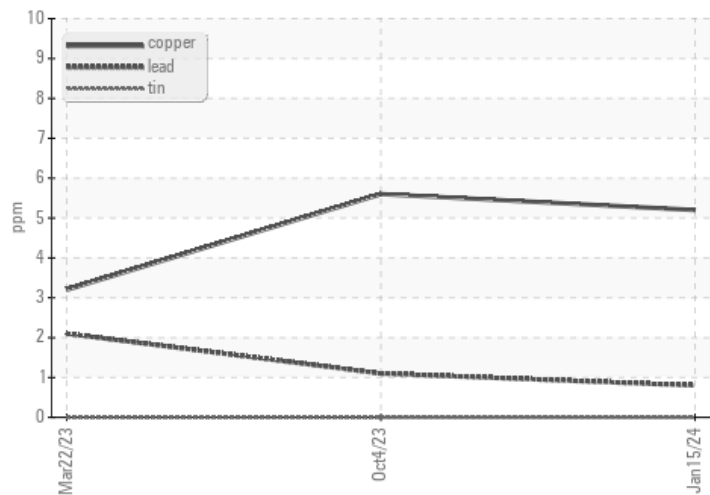


GRAPHS

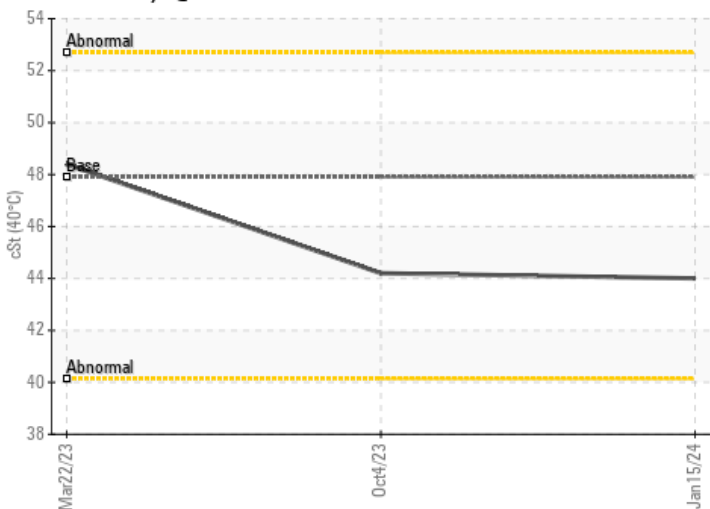
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Particle Count

