

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L580 069050-1760 -Hydraulic System

Sample No: LH0240408

Oil Type: PETRO CANADA HYDREX DT 46



#### SAMPLE INFORMATION

Sample Number	LH0240408	LH0240386	LH0240375	---
Sample Date	15 Sep 2023	03 Jan 2023	13 Dec 2022	---
Machine Hours	4000	2000	1005	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	NORMAL	SEVERE	ABNORMAL	---

**PRODUITS FORESTIERS D.G. LTEE**  
 313 RANG ST-JOSEPH  
 STE-AURELIE, QC  
 CA G0M 1M0  
 Contact: Roger .



#### OIL CONDITION

Visc @ 40°C	cSt	44.0	42.3	44.6	---
Acid Number (AN)	mg KOH/g	0.85	2.08	0.89	---

T: (418)593-3547  
 F: (418)593-3633



#### CONTAMINATION

Particles >4µm		9810	148455	51555	---
Particles >6µm		2368	75368	14898	---
Particles >14µm		94	1068	806	---
ISO 4406:1999 (c)		20/18/14	24/23/17	23/21/17	---
Silicon	ppm	4	8	4	---
Sodium	ppm	3	18	1	---
Potassium	ppm	<1	2	<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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### WEAR METALS

PQ		---	19	---	---
Iron	ppm	6	38	4	---
Copper	ppm	2	4	1	---
Lead	ppm	7	<1	3	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	1	2	1	---
Chromium	ppm	2	0	<1	---
Molybdenum	ppm	1	0	0	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



#### ADDITIVES

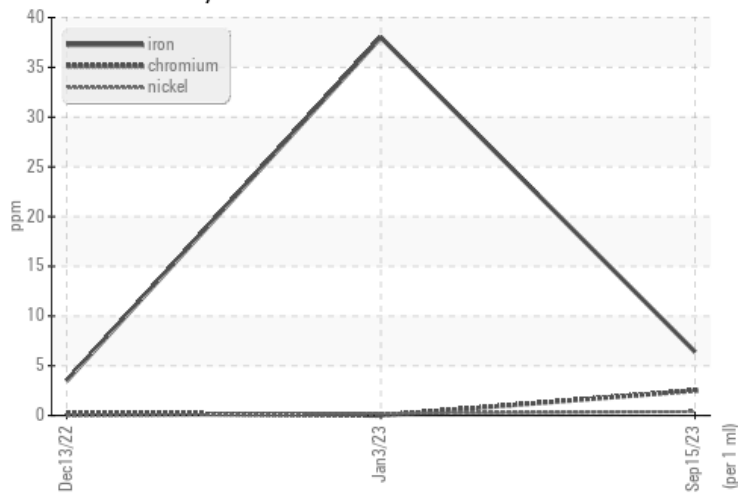
Calcium	ppm	1062	3636	1265	---
Magnesium	ppm	21	8	6	---
Zinc	ppm	563	1448	618	---
Phosphorus	ppm	518	1291	596	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	96	<1	---

Depot: PRO9STE  
 Unique No: 5645499  
 Signed: Bill Quesnel  
 Report Date: 25 Sep 2023

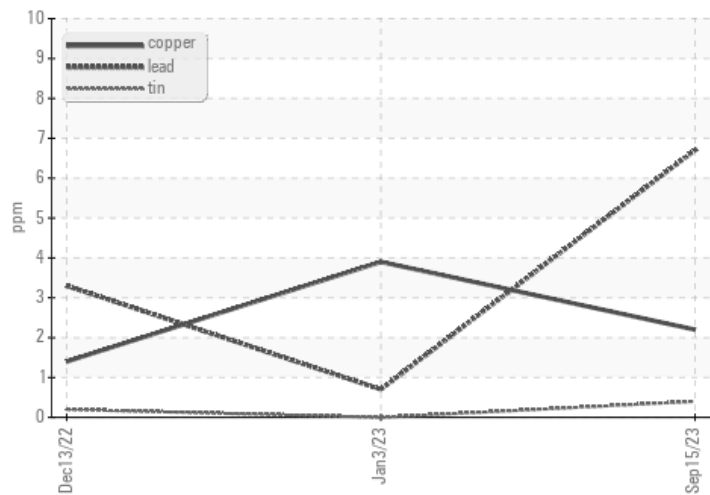


### GRAPHS

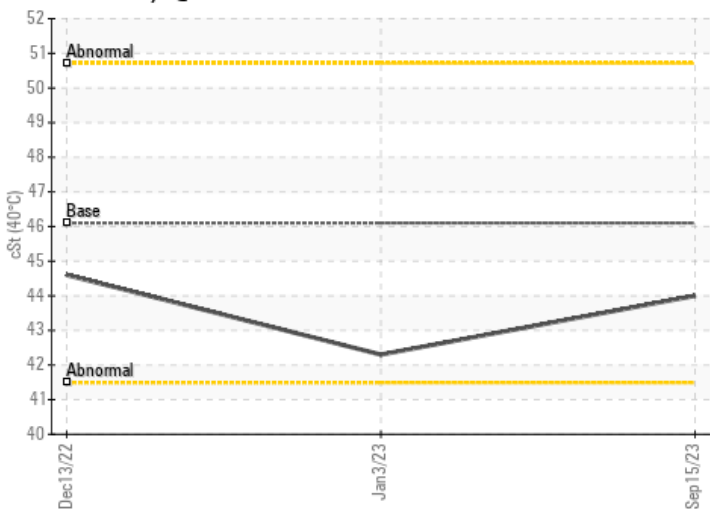
#### Ferrous Alloys



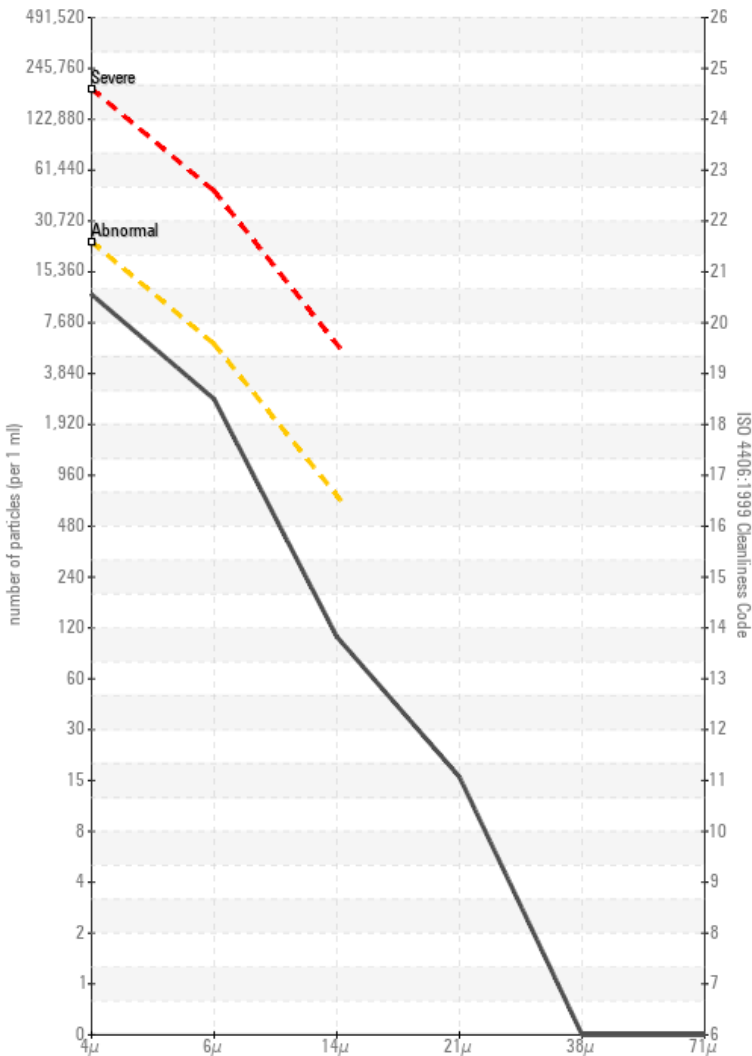
#### Non-ferrous Metals



#### Viscosity @ 40°C



#### Particle Count



#### Acid Number

