

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR L566 031104-460 - Hydraulic System

Sample No: LH0269996

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL

**Terminal Maritime Sorel Tracy**  
961 BOUL CHAMPLAIN  
QUEBEC, QC  
CA G1K 4J9  
Contact: Maintenance Manager

T:  
F:

#### Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Échantillonner de nouveau l'équipement au prochain intervalle de vidange afin d'en surveiller la condition. Les taux d'usure de tous les composants sont normaux. La propreté du système est acceptable pour votre objectif de propreté ISO 4406. La propreté du système et du fluide est acceptable. La viscosité de l'échantillon se situe dans la portée de l'ISO 32; nous vous conseillons de vérifier. Ceci, en plus des niveaux d'additifs, indique que la marque ou le type d'huile ne correspond pas à ce qui a été signalé. L'état de l'huile est acceptable pour la durée de service.



## SAMPLE INFORMATION

Sample Number		LH0269996	LH0091271	LH0083866	---
Sample Date		14 Sep 2023	18 Jun 2015	13 Nov 2014	---
Machine Hours		11457	2534	1171	---
Oil Hours		0	0	0	---
Oil Changed		Not Changd	Not Changd	Not Changd	---
Sample Status		ABNORMAL	NORMAL	NORMAL	---



## OIL CONDITION

Visc @ 40°C	cSt	● 32.7	● 42.5	● 46.4	---
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## CONTAMINATION

Particles >4µm		● 2506	4671	10529	---
Particles >6µm		● 525	● 756	● 848	---
Particles >14µm		● 48	● 53	● 26	---
ISO 4406:1999 (c)		19/16/13	19/17/13	21/17/12	---
Silicon	ppm	● <1	● <1	● 6	---
Sodium	ppm	● <1	● 5	● 3	---
Potassium	ppm	● <1	● <1	● <1	---



## WEAR METALS

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



## ADDITIVES

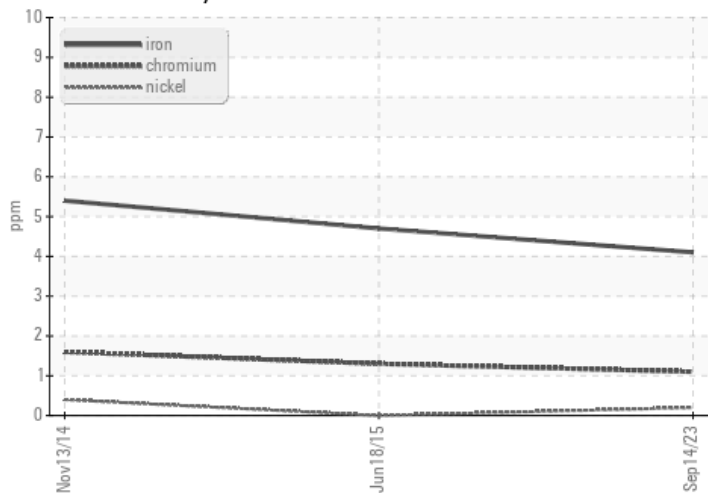
Calcium	ppm	● 154	165	1225	---
Magnesium	ppm	● 4	1	6	---
Zinc	ppm	● 464	390	673	---
Phosphorus	ppm	● 388	300	551	---
Barium	ppm	● 0	0	<1	---
Boron	ppm	● 2	2	2	---

Depot: ARRQUE  
 Unique No: 5643930  
 Signed: Bill Quesnel  
 Report Date: 19 Sep 2023

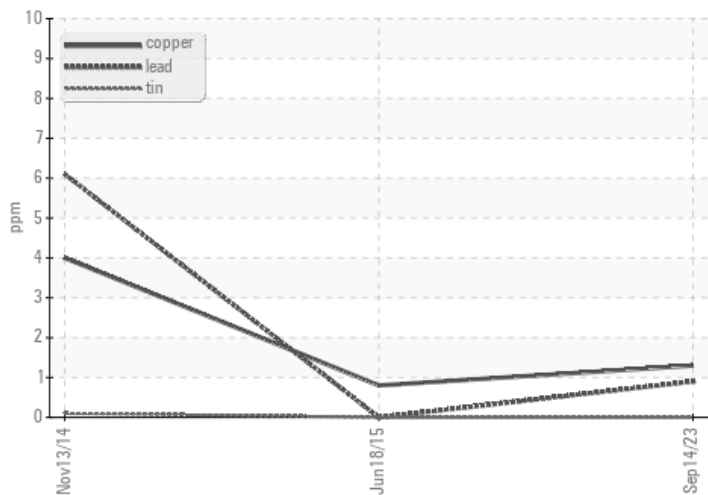


### GRAPHS

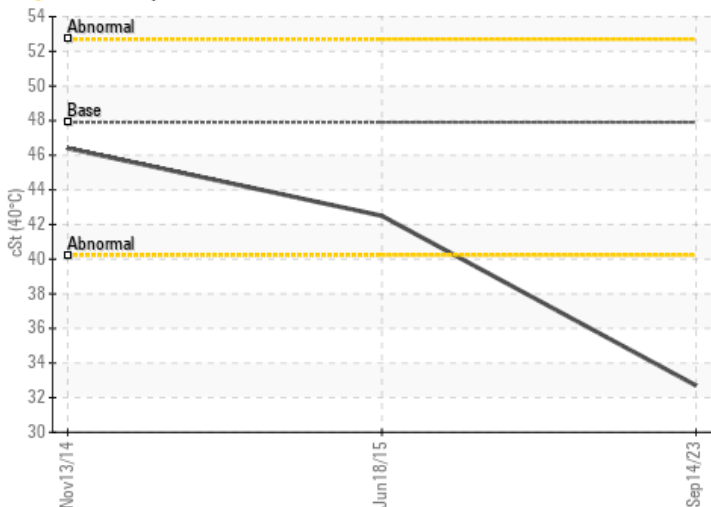
#### Ferrous Alloys



#### Non-ferrous Metals



#### ● Viscosity @ 40°C



Particle Filter (Magn: 100 x)

