

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### LIEBHERR A904C079128-1004 - Hydraulic System

Sample No: LH0290778

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Information sur l'échantillon

Numéro d'échant.	LH0290778	LH	LH	LH0235235
Date d'échant.	03 Jul 2024	13 Nov 2023	20 Mar 2023	20 Sep 2022
Heures de la Machine	0	17558	16723	15986
Heures de l'huile	0	0	0	0
Huile changée	N/A	Not Changd	Not Changd	Changed
Statut de l'échant.	ABNORMAL	NORMAL	NORMAL	NORMAL

**ARMAND DUHAMEL et FILS INC.**  
778 RUE DE L' EGLISE  
ST-IGNACE-STANDBRIDGE, QC  
CA J0J 1Y0  
Contact:



#### État d'huile

Visc 40°C	cSt	43.2	43.5	44.1	43.1
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T:  
F:



#### Contamination

Eau	%	NEG	NEG	NEG	NEG
Particules >4µ		4781	5306	3174	1811
Particules >6µ		1525	1097	750	160
Particules >14µ		158	50	76	16
ISO 4406:1999 (c)		19/18/14	20/17/13	19/17/13	18/14/11
Silicium	ppm	<1	<1	<1	1
Sodium	ppm	<1	<1	<1	<1
Potassium	ppm	<1	0	<1	<1

#### Diagnostic

Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. 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.



#### Métaux d'usure

PQ		3	---	---	---
Fer	ppm	75	55	41	37
Cuivre	ppm	3	3	2	4
Plomb	ppm	0	<1	<1	<1
Étain	ppm	0	0	<1	0
Aluminium	ppm	<1	<1	<1	<1
Chrome	ppm	3	2	2	3
Molybdène	ppm	0	0	0	0
Nickel	ppm	<1	0	<1	<1
Titane	ppm	0	0	0	<1
Argent	ppm	0	<1	0	<1
Manganèse	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	0	0



#### Additifs

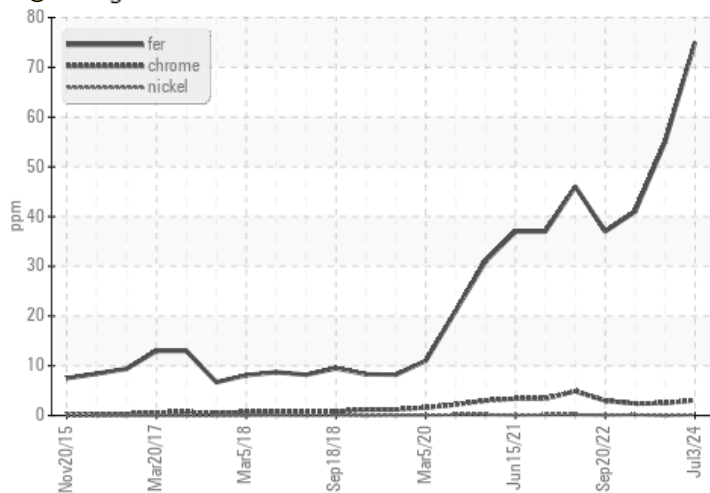
Calcium	ppm	64	74	91	94
Magnésium	ppm	28	22	8	9
Zinc	ppm	565	625	702	643
Phosphore	ppm	463	496	607	566
Baryum	ppm	0	<1	0	0
Bore	ppm	<1	<1	<1	<1

Depot: ARMSTI  
Unique No: 5812295  
Signed: Kevin Marson  
Report Date: 10 Jul 2024

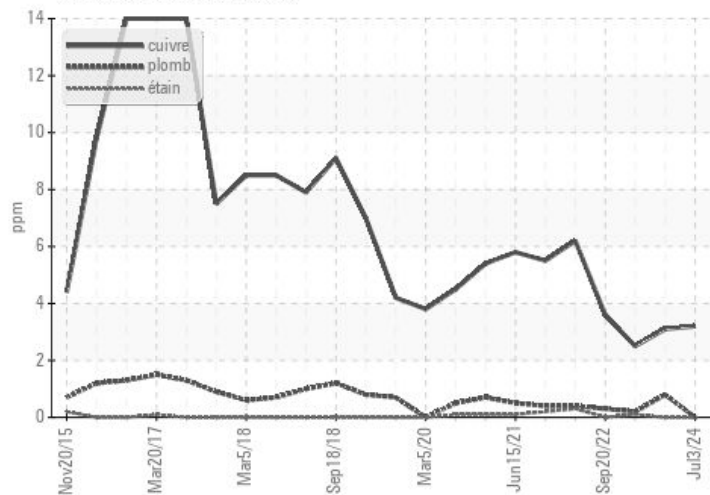


### Graphs

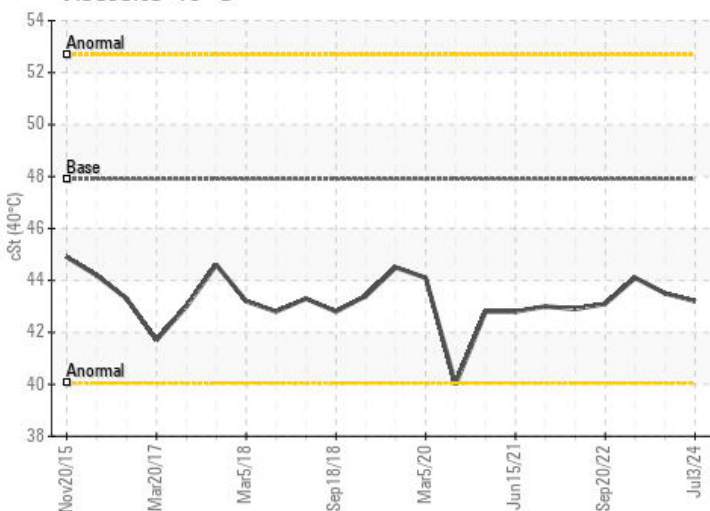
#### ● Alliages ferreux



#### Métaux non-ferreux



#### Viscosité 40°C



#### Comptage de particules

