

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(363346) IRON SHORING] 022240-1709 - Hydraulic System

Sample No: LH0202924

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### INFORMATION SUR L'ÉCHANTILLON

Numéro d'échant.	LH0202924	LH0275128	LH0274452	LH0270467
Date d'échant.	27 Sep 2023	22 Aug 2023	14 Aug 2023	26 Jul 2023
Heures de la Machine	2028	2026	2026	2025
Heures de l'huile	0	0	0	0
Huile changée	Changed	Changed	Not Changd	N/A
Statut de l'échant.	ABNORMAL	ATTENTION	NORMAL	NORMAL

RONI/IRON SHORE EXCAVATING LTD.  
100 MACINTOSH BLVD  
VAUGHAN, ON  
CA L4K 4P3  
Contact: Service Team  
service.team@roni.ca  
T:  
F:



#### ÉTAT D'HUILE

Visc 40°C	cSt	46.5	41.2	45.0	42.8
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#### CONTAMINATION

Eau	%	0.241	---	---	---
Particules >4µ		14546	881	1738	2177
Particules >6µ		2088	124	142	232
Particules >14µ		35	14	6	13
ISO 4406:1999 (c)		21/18/12	17/14/11	18/14/10	18/15/11
Silicium	ppm	<1	3	2	4
Sodium	ppm	<1	2	<1	<1
Potassium	ppm	0	<1	<1	<1



#### MÉTAUX D'USURE

Fer	ppm	<1	4	3	5
Cuivre	ppm	<1	14	1	2
Plomb	ppm	1	2	<1	1
Étain	ppm	0	0	0	0
Aluminium	ppm	0	<1	<1	1
Chrome	ppm	0	<1	0	0
Molybdène	ppm	0	<1	0	0
Nickel	ppm	<1	<1	<1	<1
Titane	ppm	0	0	0	0
Argent	ppm	<1	0	0	0
Manganèse	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



#### ADDITIFS

Calcium	ppm	197	112	713	1150
Magnésium	ppm	<1	3	2	3
Zinc	ppm	798	1099	585	684
Phosphore	ppm	623	895	521	652
Baryum	ppm	<1	<1	0	0
Bore	ppm	<1	<1	1	2

#### Diagnostic

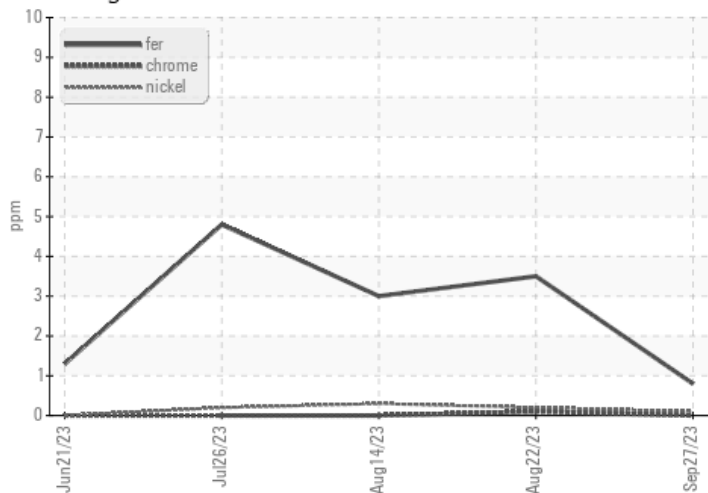
We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate concentration of water present in the oil. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The white residue present in the sample is oil additive precipitate. The oil is no longer serviceable due to the presence of contaminants.

Depot: RONVAU  
Unique No: 5656263  
Signed: Kevin Marson  
Report Date: 06 Oct 2023

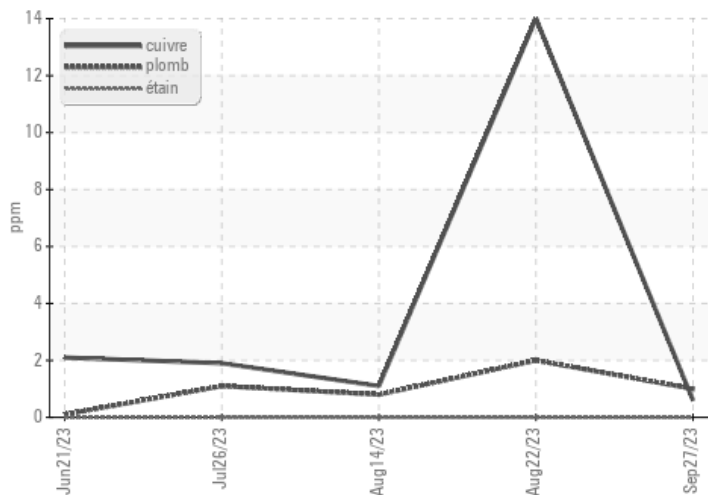


### GRAPHS

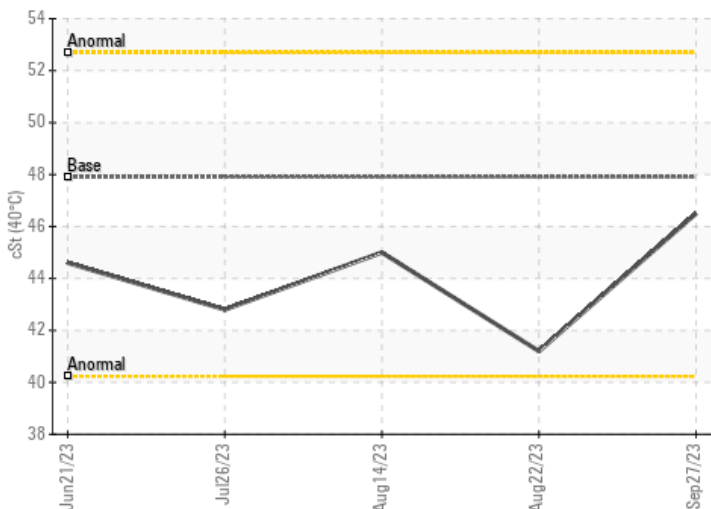
#### Alliages ferreux



#### Métaux non-ferreux



#### Viscosité 40°C



#### Comptage de particules

