

# LIEBHERR

## CONSTRUCTION EQUIPMENT



### [(364849)] LIEBHERR R934 053396-1487 - Hydraulic System

Sample No: LH0279080

Oil Type: PETRO CANADA HYDREX XV ALL SEASON HYDRAULIC OIL



#### Information sur l'échantillon

Numéro d'échant.	LH0279080	LH0219938	LH0219931	LH
Date d'échant.	21 May 2024	01 Apr 2024	15 Mar 2024	09 Feb 2022
Heures de la Machine	2053	1995	1925	0
Heures de l'huile	0	0	0	0
Huile changée	Not Changd	Not Changd	Changed	N/A
Statut de l'échant.	SEVERE	SEVERE	SEVERE	ABNORMAL

HUBERT & FILS

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#### État d'huile

Visc 40°C	cSt	41.7	41.1	40.9	44.3
Indice d'acidité	mg KOH/g	---	1.00	1.38	---



#### Contamination

Eau	%	NEG	NEG	NEG	NEG
Particules >4µ		9249	2561	113685	98617
Particules >6µ		1492	574	25575	14364
Particules >14µ		39	60	220	42
ISO 4406:1999 (c)		20/18/12	19/16/13	24/22/15	24/21/13
Silicium	ppm	4	5	6	5
Sodium	ppm	3	3	3	2
Potassium	ppm	1	<1	<1	1



#### Métaux d'usure

Fer	ppm	6	6	8	7
Cuivre	ppm	44	40	45	9
Plomb	ppm	5	5	6	2
Étain	ppm	2	2	4	<1
Aluminium	ppm	<1	1	1	<1
Chrome	ppm	<1	<1	<1	<1
Molybdène	ppm	0	0	0	0
Nickel	ppm	0	0	0	0
Titane	ppm	0	0	0	0
Argent	ppm	0	0	0	0
Manganèse	ppm	<1	0	0	<1
Vanadium	ppm	0	0	0	0



#### Additifs

Calcium	ppm	1155	1185	1296	1466
Magnésium	ppm	6	6	7	4
Zinc	ppm	685	679	702	749
Phosphore	ppm	559	569	595	662
Baryum	ppm	0	<1	2	0
Bore	ppm	3	2	2	<1

#### Diagnostic

We recommend that you drain the oil from the component if this has not already been done. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Copper ppm levels are severe. Bearing and/or bushing wear is indicated. 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 oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: HUBBOI

Unique No: 5788340

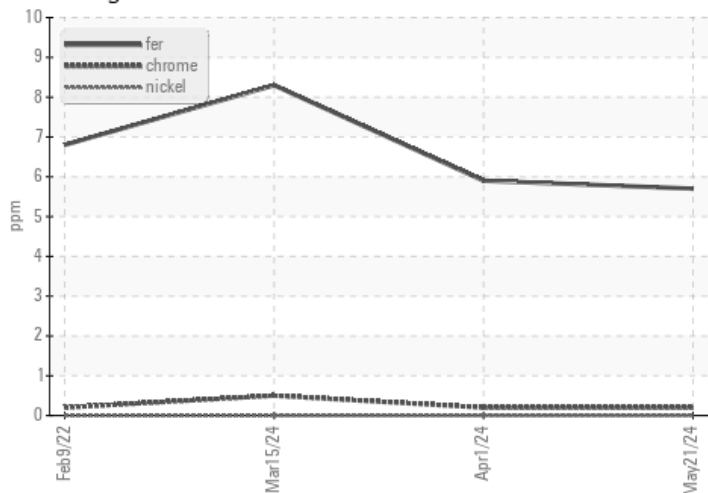
Signed: Kevin Marson

Report Date: 03 Jun 2024

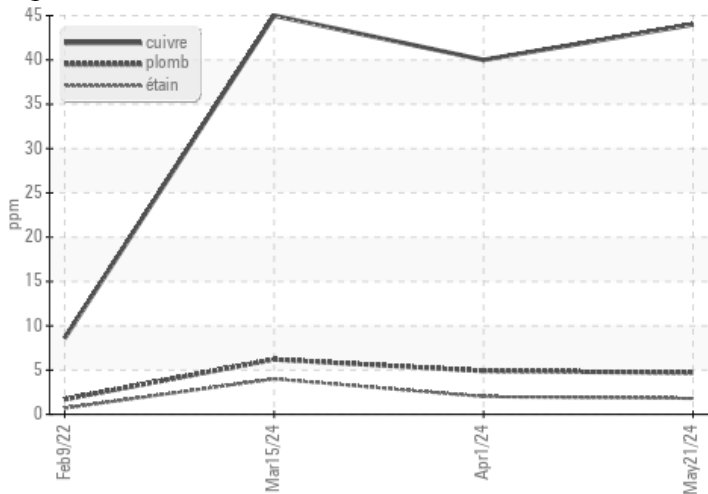


### Graphs

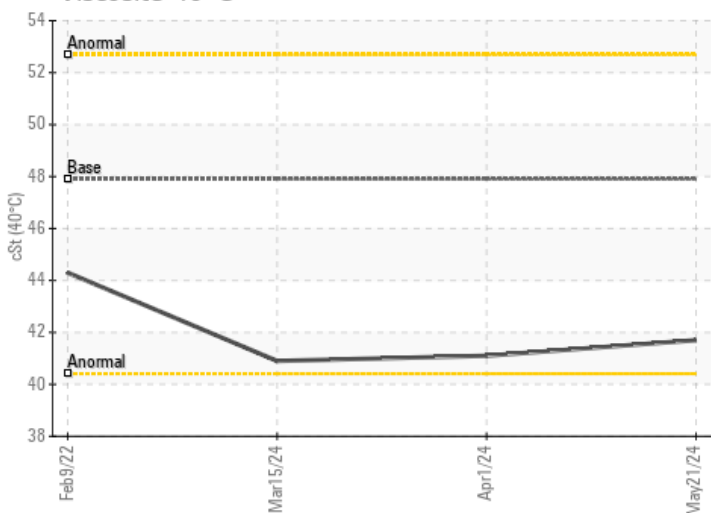
Alliages ferreux



● Métaux non-ferreux



Viscosité 40°C



Comptage de particules

